

National Water Quality Network

ANNUAL COMPILATION OF DATA

October 1, 1958 - September 30, 1959

A Foderal, State and local cooperative report on water quality determinations of surface waters at selected locations throughout the United States



U 5 DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service

Division of Water Supply and Pollution Control

Robert A Taft Sanitary Engineering Center

Other related publications

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FORTWORD

We are pleased to present this second annual compilation of data from the National Water Quality Network of the Public Health Service. It has been gratifying to note the many uses which the first year's data have served

We believe the data will continue to gain in significance with the passage of time flows trends in pollution levels are already discernible. New trends will be defined as more data are accumulated.

The water quality measurement program must be sensitive to problems of the day, to new techniques, new parameters, and other developments. This year the Network has added Strontium-90 and heavy metals analyses to the smarrinations made furing the first year. Other determinations will continue to be added as their usefulness develops.

Again we are deeply grateful to the many local, State, and interstate agencies and industrial concerns who are participating, and whose contribution to this program in a large measure assures its success

Gorda & Mc Collisa

Cordon E McCallum Chief, Division of Water Supply and Pollution Control



STREAM FLOWS

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at Cincinnati, Ohio	8 6	156	209	290
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KACHI HOTTATB

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POTOMAC RIVER at Williamsport, Maryland	9 3	160	213	297
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RID GRANDE at Laredo, Texas	100	164	215	303
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YELLOWSTONE RIVI	ER 112	171	222	316

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NATIONAL WATER QUALITY NOT WORK

The Public Health Service program for providing fundamental information on the quality of the Nation's waters stems from the provisions of Section 4(c) of Public Law 440, marted on July 9, 1986 which states that " the Surgeon Omeral shall in cooperation with other Federal, State and local agencies having related responsibilities collect and disseminate basic data on chemical, physical, and biological water quality insufar as such data or other information relate to water pollution and the prevention and soutrol thereof."

To faiffil this responsibility, the Network provides for collection, interpretation, and dissembation of

- a Reformation on changes in valor quality at key points in river systems as such quality may be affected by changes in water use and development
- Continuous information on the maters and extent of pullwinets affecting water quality
- Data which will be useful in the development of somprohensive water resources programs
- 4 Data which will assist State interstate and other agreedes in their water pollution control programs and in the selection of sites for legitimate water uses

Approximately 90 sampling locations were established for the initial phase of this program, starting Outober 1 1957. To conform with existing practices in other water resources activities the data year was established to cover the period Outober 1 to September 30 of the following year

Each location satisfies one or more of the following spiteria

- Major waterways used for public water supply propagation of fish and wildlife reoreational purposes and agricultural industrial and other legitimate uses
- b Interstate constal, and International boundary waters
- Vaters on which activities of the Federal Government may have an impact

Final locations of sampling stations are fixed after discussions with local State, Federal and other agencies having related interests

Active local participation is an important part of this operation and assures the development of the maximum amount of information of value locally and nationally. The nost of the program is shared by the Federal Government with State and local agencies, through the latter a contributions of laboratory time and sampling manpower Specifically the State and local agencies perform most of the maximum chemical analyses and collect samples for the newer more samplest attempted the Public Health Services, in turn, performs the more samplest determinations and makes the results available in the participants. In addition, the consultation, training facilities, and other resources of the Public Health Services are available to the comparating agencies

The locations of sampling stations in operation suring the data year October 1, 1918 to September 30, 1989, are shown in Figure 1. A description of the stations with the participating agencies and other participating agencies and other participating agencies.

The following communities, selected after carreful sorresting, and consultation with the various agencies concurred with water quality management and water resources development, are considered to be of greatest value in masting the objectives of the program

- a Radiosotivity
 - (1) Orosa Alpha
 - (2) Gross Bets
 - (3) Struction 90
- b Plankinn Populations
- Coliform Organisms
- d Organic Chemicals

Blochemical, charactel and physical measurements including blochemical crypton demand (B D D.) disculved crypton (D D), charactel crypton demand (C,O,D), chlorine demand, amonomic attrogram, by dregon in measureties (pH), color, terbidily, temperature, alkalishity (or acidity), hardwass, chloride, sulfate, and total discolved solids.

L Trace elements

Semples for radioactivity, soliform organisms, and the conventional analyses are collected and analysed weakly famples for organic shaminals are commised monthly, while plantism organisms are commised monthly or semi-monthly Structism-70 commissions are made on composites of weakly samples accommissed over a three-month paried. Trace elements are determined on 1-month someonics of weakly samples. New parameters which are developed and found significant will be included as the program southness.

AVAILYTICAL MUTHODS AND PHIJAHILITY OF DATA

The physical, charmed and biochemical data included in this publication are the result of suspensitive efforts of the several agencies listed in Table 1, solution 6, in present most of these manuscrements were matributed by their informationes. While it is resemplied that modifications to meet local sanditions are made by individual laboratories the methods used in most same are those published in the 18th Edition, "Standard Methods for the Examination of Water, Severge, and Industrial Wastes," For write smitty, the shieries demand test is reported on the basis of the Starch-Indide thiration proceedure, and the chemical oxygen durant test is reported to the chemical oxygen

To aspers continued reliability to the published data, frequent analysis of reference samples by such accommitting

laboratory constitutes an integral part of the over-all program. Periodically a synthetic standard sample is provided to each participant for reference analysis. The reported results are reviewed Any significant errors are selled to the attention of the reporting laboratory and, after the cause of the arrors has been determined, the previously solutified data are either corrected or discarded. From these findings, the analyses reported in this sampliation are believed to be accurate to ± 10% at the reported values.

The analytical methods used by the Public Health Service laboratories are described in the discussion of water quality parameters which follows and are covered by several of the references listed in the Bibliography

WATER QUALITY PARAMETERS

In the assessment of water quality all of the legitimate purposes for which raw waters made used, and which may be affected by pollution, must be considered. These may range from the minimum requirements necessary for navigation to the ultimate in water quality demanded for special industrial promouning Quality needs differ considerably therefore approving to water use

For demestic use, water must be free of disease organisms clear colorises, tasts and odor-free and have a relatively low dissolved missral content. Agricultural water is judged primarily on its missral content, especially with respect to the ratio between sodium and other nations and the presence of boron. Water for fish propagation and recreational purposes must be relatively free from domestic and industrial pollution and must be able to sustain an active flore of the smaller aquatic organisms on which fish and wildlife find. Industrial water quality demands run the gament from the complete absence of minerals to a requirement of low temperature, the oritical factor in water used for coulding. The effects of radioactive materials on these uses have not yet here fully appraised.

The various laboratory assuminations made as part of this program are discussed below

MATERIAL TIVITY

Redicentivity, long recognized as a contaminant of water from misral sources, nontinues to grow in importance and health significance with the development of modeur energy for both military and percental use Rackground levels are being assertained now about of the anticipated major expension of the another energy industry. Levels of radioantivity must be measured continually as new sources are articlished.

Gross sighs and beta measurements are made on both suspended and dissolved solids in the raw surface water amples. The total radioactivity in the dissolved solids provides a rough measure of the levels which may be found in a treated water, where water treatment removes substantially all of the suspended matter.

Alpha levels reflect the activity added by arasism and thorium daughters. Beta activity levels generally reflect the variable contemination due to fallout ancher energy installations, institutions willising radioactive materials, and other man-made sources.

Gross levels are informative in evaluating long-term trends or changes in water quality. By themselves, however they are of limited value in assessing radiation exposure. Where gross results are consistently over the maximum permissible concentrations for mixed fission products the identity of the specific radiomolides involved must be established.

Because of the importance of Struction-90 in the environment this year's data also includes the contribution of this long-lived radiomolids to the dissolved activity reported. The levels found were all well below the maximum permissible concentration as defined in Handbook 69 see Bibliography Reference No. 18

PLANETON POPULATIONS

Many equatio organisms are sensitive to the various substances which pollute water forms of these develop only in relatively clean water while others may be stimulated to live and multiply in the presence of certain types of pollutants, aspecially homsehold savings and contain types of industrial wastes. A very large population of algae is sometimes induced to develop by mineralised products of asyange decomposition when nitrates and phosphates are made available as patrious.

The plankton date give the numbers binds and times of coourrence of algae and other squatio microorganisms to the water. This information is useful in determining the pollutional status of any water supply source, and in indicating the relative numbers of organisms which may water problems in the treatment and use of water.

Most of these organisms interfere with water use through shortesting of filter rous is treatment plants and by causing bastes, odors, soloration, and various physical and chamical shanges by reference to the plantime counts, made regularly and frequently, it is possible to note the types and numbers of interference organisms and to determine some of the procedures that will be needed in treating the water for ass

In the stream or lake itself many plankingle arguments are known in improve water quality by providing food and cayges for desirable aquatic life and by siding in the recovery of polluted water. Others may cause detrimental conditions through formation of unsightly blooms and mate development of alims growths, and the killing of fish and other animals through the release of incio products or other mans.

Domestic and industrial wastes infinence the kinds and numbers of organisms. Hence plantion may reflect changes in water quality resulting from changes in the wastes containing dissolved substances.

Planking counts will be particularly useful in water quality evaluation when they have been resorded over a period of time to indicate variations is kinds and complexes of organisms from month to month and from year to year

Raliability of Data

The counting procedures used are aimed at bringing about maximum accuracy is the reported data. The procedures

involve the simplification and standardination of methods of examination of each type of the many organizes observed. The artial volume of manyle which is used for the analysis is relatively large and this tends to profine greater assurance Organisms are identified to game, guess group, or species,

Each sample consists of three liters of raw water containing a preservative and, in addition, 25 cal, of raw water without preservative Analysis for the sameplankine is made by counting a 100 mm strip on the Sodgewick-Raffer allde, using a magnification of 200 From the live sample only kinds, not numbers of organisms are reported.

The clump counting method is employed on the preserved sample in which such solitary call or solvey of calls is counted as one. In order in improve reliability of data, planting employed has been increased from a mouthly basis be a semi-mouthly basis for 18 of the stations.

Because formalis as a preservative has a detrimental effect on some of the delicate organisms its use has been discontinued Sodium ethyl mercuric thiosalicylets (MER-THEOLATE) is now help used as a preservative

We estimize the plantim organisms from the silt particles that are responsible for much of the turbidity is water and which also interfere with observation of plantim under the microscope. Assurete plantim analysis of vater from turbid streams is therefore carried out with considerable difficulty.

University Observations

In addition to the true planking the benthio or bottom organisms are often present in the water, especially after periods of rainfall when the latter are washed in from their normal habitate Emmples include the stalked distrins Complements, Achievethes and Cymbolla some mottle forms of Navicula and attached filamentous algae such as Stigno clouten, Codoscolom and Clothric, Rain water also carries have the strains various tragments of tissues from land plants and animals. Pollon grains mold spores, and plant hairs which drep into the water from the atmosphere are also frequently encountered.

Large populations of fungal hyphan and shouthed bacturin frequently appear. These sometimes follow blooms of plantionic algae or the presence of dispersed woody cells from increatrial plants.

Motel and crystal particles, not associated with mineral values but dispursed in raw water samples have been found in a few samples faring the association for planting. These particles have been traced for considerable distances through association of downstream samples.

DECIMINE CHIEMOCALS

The Mation's water resources each year ressive instreaming quantities of organic conteminants. Since 1940 the chemical industry particularly in the manufacture of synthetic and petro-chemicals, has experienced an envimons expansion that shows every sign of continuing Each year millions of pounds of synthetic detergents, insecticides hardeights, and similar domestic products find their very into our streams from household sewers, industrial water discharges, and land reconfi

Effective and economical treatment methods for most of the complex organic materials remain to be developed. Even where treatment exists, residues remain is sufficient quantity to cause water demage. These stable residues persist through savage treatment, biological and chemical action of the stream, and water treatment processes and finally reach the consumer is drinking water.

The presence of some of these materials, even at conunitrations less than I part per million may cause impairment of water quality most noticeably in production of tastes and odors. Finalisals tainting also quinkly noticed by the consumer is another temage. Effects on water treat must many of which are ill-defined at present and impairment of water quality for industrial uses are being reported with increasing frequency. Essentially nothing is known of the possible immediate or image-term affects of these materials on human health. It is important that such information be exught.

The usual minitary analyses are not affective in measuring these never organic contaminants. Yet it is assential

to know something of their connectrations and character. The communication method known as the Carbon Piliter Technique." developed by the Public Health Service purching the communication of these organic compounds from a large volume of water Electrication of the adsorbed mainries with organic solvents, followed by chemical separation and testing provides useful information concerning organic pollution and for assaying river systems for these substances.

It is difficult to say what part of the total organio' materia is measured, since there is no accurate method for measuring the low concentrations of organics. Work with move solutions has indicated that adsorption may be above to 100% and that description under the conditions of the test may range from 50% to 90%. The sampling and enalytical techniques are reproducible with ± 10% when applied to replicate samples. Hence, relative pollutional loads on streams are be compared even though the absolute total quality may not be accurately known.

Following continuous filtration of about 1000 gallons of water over a ten to fourteen day period, material on the surbon filter is extracted with two solvents, chloroform and also hol

The amounts of the chloreform and should extract are weighed, and the concentration of these materials in the water tested is then computed. Results are recorded in parts per billion (micrograms per litter). Clean waters may contain 20 to 50 ppb of chloreform extractables and 50 to 100 ppb of alcohol extractables. Polluted waters contain asyeral times these concentrations.

Chloroform Estracts

The organic residue recovered from the carbon filter by chloroform is very complex. It is desirable to separate the oracle extract into certain broad chemical classes and this can be done on the basis of solubility differences. The various classes or groups and their significance are discussed briefly below.

Ether healthles

This group is usually a brown, human-like powder apparently composed to a large extent of carboxylic acids, katones and alcohols of complicated structure. Origin of the group which is an indicator of old pollution, is baliswed to be partially oridined savage and industrial wastes. For example the Ohio River at Cincinneti has been exposed to omak industrial and savage pollution, and hance large uncerts of other insoluble materials are found. Structure with little or no pollution history have little or no other insolubles. Chloroform entrants mouthin from 0 to 30% of other insoluble material.

Value Schahles

These substances are largely saidis and matistillable at moderate temperatures, but their solubility in other indicates that the molecules are smaller and probably simpler than the starr-insolubles. On the other hand, their water solubility practically requires the presence of several functional groups such as hydroxy-axid, keto-axid, and keto-alsohol final examps ands probably originate from partial oxidation of hydroxarbons or they may be matural substances. These maturals usually make up 10% to 20% of the total autrant. They have very little polar

Wask Anids

This group is characterised by being removed from star solution with sodium hydroxide but not with sodium bicarbonate Pheonis are the best known weak acids and if present is the water appear in this group Other weakly soldie compounds include certain ands imides sulforamides and some sulfur compounds. This group of materials also occurs is sainted. The weak acids commonly constitute 5% to 20% of the chlorosform extract and they are odorous.

Strong Anida

These saids are usually the carboxylic saids such as sastic beaseld salicylis, or butyris. Although classified as strong is reference to carbonic said, they are actually weak when compared with a mineral soid, such as sulfuric Many of the compounds are used industrially but may also be produced by natural processes such as formamiation. This fraction makes up from 5% to 10% of the total. The significance of the strong saids can be interpreted only in the light of stream pollution conditions. Some of the materials are highly odorous

Bases

These compounds are organic amines fisch materials as suffice and pyridine are united of commerce. Lower emines may open as a result of fectomposition. Generally only 1% or 7% of the total extract is made up of the last as, Although efectors, the law emandrations found are not likely to make objectionable conditions. However, is the same of specific amine-organicing wastes the compounds can be of specific as a law in the compounds.

Mastrale

This group frequently sensitives the major portion of the chloredorm extract. Neither basic nor soldie, the mainrials are less reactive and tood in pervist in streams lenger than many other types. Hydromerhous, aldehydess, knowns, esters, and others are mamples of neutral mainrials. The group lends itself to further frequiencials by means of shremmingraphic separation into alignatic, arematic and ony penalty sub-groups:

Alighetics This partion represents petroleum type hydronerhous in a considerable state of parity, and is usually made up of mineral off type of material Tax percentage of alighetics present yields important information about the possible source of polistics stace petroleum is the most likely source.

Arematics: These are principally the coal tarhydrocarbons stock as becomes, toleans and a host of others and their presence is any significant amount is a reliable belication of industrial pollution. Further the materials can frequently be identified by infrared spectrophotometry. Home aromatic compounds which have been found in our rivers - and is our stricking water - isolute DDT aldria, planyl other ortho-nitrocalic robusts as pyridine phenol and others. The materials are highly odorous and may also be incide Their appearance in any quantity as pollutants should receive mareful evaluation.

Compounds (Compounds (Corys) These are the neutral compounds containing carygen, such as aldehydes kettmes and enters. They may have originated by direct discharge or may represent oxidation products from both natural

and industrial materials. They halp to indicate the age "
of the pollution, since pollution exposed to oridation
forces for a long time would be expected in contain
large amounts of citys. The city materials are adorous,

و بوروميا

Manipolative losses are talearent in this type of asparation. If he loss emends 10% to 18%, volatile empeneric may have been lest from the estaple Such volatiles may have significance as politicants

Alcohel Extracts

The slooked extractable frestion generally emerists of more polar materials then the chloroform extracts, and emission synthetic detargents proteins, carbohydrates, and miscellaneous natural substances. These classes of substances are not quantitatively recovered by the slooked For mountle, the slooked recovers only 20 to 30 percent of the synthetic detargents present On waters of mixed industrial and domestic pollution, the chloroform and slooked extractables may be short equal. On some streams where the industrial pollution is rather low and much satural pollution and sewage is present, the slooked extractables may amond the chloroform by a factor of 4 to 5.

The alcohol extract is usually water-soluble but not sther-soluble. Very little further chamical separation is practical on the material. Tests revealed that synthetic detargents make up 1% in 12% of the alcohol fraction.

Other Tests

Infrared spectra are runtinely prepared on the total chloruform and electhol extracts. In addition, spectra are prepared on the most significant groups such as the neutral alighetic aromatic and oxygenated. These spectra reveal something of the chemical structure of the materials indicate differences and in certain instances provide a definite identification. In the case of the alcohol extracts, the infrared will indicate the presence of synthetic determines if the materials constitute a significant portion.

Specific Identifications

During the course of the year manarous spentile organic chemicals have been discovered in water samples. The chemical continuously continuously continuously continuously distance of 1900 ratios. Aldrin, a bilorisated inscattering was found in the Stake River Various because derivatives and off pollutants have been detected. See Ribliography, Reference &

CHRACTER PHYSICAL AND BACTERIOLOGICAL EXAM-DIATIONS

The various biochemical, shouldn't, and physical cominstants generally performed by the participating laboraturies are discussed below

Ammonia Microgen and Chlorina Demand

The cost of water treatment for domestic use is affected by the consemption of chlories, with ammosts attrogenbring responsible for a large portion of the shlories demand. The greater this demand the more expensive the treatment. The summania may be due to unstabilised domestic pollution, to industrial waste discharges or to both The presence of measurable quantities of nitrogen compounds not neceserly ammonia, is also an indication of the fertility of the stream toward both macro—and microbiological forms

Calor

Color is domestic water supplies is undesirable its removal in the water treatment process whether it be from satural or industrial sources, may require large domes of chemicals and be expensive

Dissolved Coygan, Binohamical and Chamical Coygan De-

Blacksminal processes, in which aquatic organisms attack and stabilise the organic matter present require displayed caygen II unstable ordanic matter is present in amous, the organisms will multiply rapidly, organisms the major present in the value and bring about a feel asplic stream condition. The dissolved oxygen level time serves to infinite the blockenions activity of the stream fligh activity, resulting in low dissolved oxygen levels will drive out game flah in favor of survengers. Vary low or sero oxygen levels will kill all flah and aquatio organisms dependent on dissolved oxygen for life. Temperature and researches raise also affect dissolved oxygen levels.

The 3-day bindhamical crygen demand (B O D) indicates the degree of unstabilised organic pollution from either demants or industrial sources, to which the stream is being subjected. A significant demand will affect the fish and macroorganism population, and weters carrying a high B O D seldom contain pame fish On the other hand, game fish will thrive in streams in which the crygen famous has been stabilised, as this condition is usually favorable for the growth of organisms on which fish fact.

The chamical sayyon demand analysis serves in support the findings of the brockemical oxygen demand test, it incomes indicate to what extent the wests load of the stream has been stabilised, or it may indicate the presence of organic and inorganic pollution which is not readily midded by biological processes Becames the chemical oxygen demand can be determined quickly is comparison to the biochemical oxygen demand, the establishment of a correlation between the two parameters serves to reduce the annihal demand relative determinations required. The chemical demand results are almost always higher than the biochemical demand

Tumperature

Temperature is important to both conservation and industry A few degrees absention in temperature due to cooling water discharges may seriously limit the capacity of a stream to support fish life Also high water temperatures increase the cost of cooling water for industrial operations. Cooling towar capacities and other equipment for handling cooling water must be angineered to the temperature levels normally encountered.

Mineral Constituents

These determinations include alimitatly hydrogen-ion commutation (pH), hardness, shlorides, satisfies, and total dissolved salide. The pH indicates whether water is acidio or alkaline corrective or passive. Alkalinity is a measure of the scatterination reserve present, or the extent to which the water can resist a change from an alkaline is an acid condition upon addition of a mitio chemicals. This information is important to the water treatment plant operator and to many other water users.

Hardness is not only a measure of the scap economical property, but is also of importance in the treatment of baller waters, where removal of hardness is one of the most important functions. Chloride, reliate and total dismitved solids add further information on the gross dissolved mineral combant carried by the stream. These are of great importance when considering the tasts or palabelity of water. They are also important when the veter is being demineralized for specific industrial processes, since the cost of demineralization is a direct function of the dissolved solids context of the veter is addition waters of high sultar sometimates are less desirable and may at times away he until for meal-sipal irrigation, and other uses

Turbidity

Turbidity of value is due to the suspension of alay silt, finely divided organic matter microscopic organisms, and other similar materials its presence is of particular importance in water transment processes and in the propagation of flak and other aspectic life.

Colling Organisms

Information regarding focal pollution is assential to water quality measurements. Data on coliforms help to point up the trends in the effectiveness of control of documents wasts discharges.

The delayed insulation membrane filter technique is used for the coliform examinations, instead of the formentation tube (MPN) method. The latter method would accessitate transportation of water samples in the laborainry for assembation resulting in an alapsed time between collection and assembles which would always the microtial content of the samples significantly. Also some of the many other bacteria present in raw water might overgrow or otherwise habitit the demonstration of the colliforms. In the delayed incubation membrane filter procedure, the bacterial organisms are removed from the fluid sample insteading and sent to the laboratory on a preservative medium. Thus the resulting colliform count approaches very closely the actual number of colliform bacteria present in the water sample at the time of collection.

Trace Claments and other Determinations

This year's data helicis the assumination of composite amples of raw water from such station for the dissolved constituents likely in he present in trues quantities or whose significance does not warrant more frequent analysis. Twice during the year, two-month samposites of the weakly samples were prepared and subjected to analysis liminations movered those elements which were considered to have possible physiological or textonlogical significance in triological life and for which a reliable method was available. As new methods are developed other determinations will be included. The slitinute goal of this phase of the program will be in provide background data on all alaments which may be found in water and which can be detected by practical laboratory procedures.

Two series of samples are reported in this compilation Although the first series does not exactly correspond with the beginning of the present water year, its collection was begun sariisr in order to include low water conditions Subsequent sampling and compositing periods will nower other ranges of stream flows

In carrying out the spectrographic examination, the sample was first passed through a membrane filter in remove all suspended matter. As aliquet of the sample was then taken, additied with hydrochloric acid, and evaporated in a concentration containing 2 mg of solids in 0 l ml of sample (20,000 ppm). A 0 05 ml portion of the concentrated sample was these placed on the electrode and around in completion. Sample exposure was made through a stepped sactor disc. The suposed plate was compared to a standard plate prepared under identical conditions.

Waters with low dissolved solids materia can be maemirated to a greater degree than those inving a high dissolved solids context, thus associating for the apparently variable sensitivity above in the tabulation. Values followed by an asterisk (*) above the limits of sensitivity at which the test was performed, and indicate that the ion being passered was not detected at that level. The analyses done by wet or flame methods are quantitative and have been remaded off to the significant figures reported. The spectrographic analyses are semiquentitative and represent an approximation of the consentration present. All of the reported values by this method represent the quantity of the particular metal in admitten at the time of semimetics. Hence such values do not consider what changes might have transpired in the sample during compositing and stor-

age Any interpretation based on these this should take this into account. It is well renomined that trace associates and many loss are subject to predipitation and adsorption on accitainer surfaces turing storage. This would particularly apply to iron and manganess, which are aspecially prove to oxidation and predipitation suring storage bases desirable was not analyzed.

The molorimetric procedure, using namindo acid as detailed in the 10th Mitties of "Standard Methods" was used for detarmining horos, Flaoride examinations were made by the Briochrome Cyanine B method, as given in Asslytical Chemistry, 26 1161 (1984) The Chem Method, as given in Asslytical Chemistry, 28:1738 (1986) was used for the Selection Asslytes.

STRUMM PLOWS

Stream flow records play as important part is utilizing water quality data such as covered is tide report, However stream flow records have not been included in this compilation because they are readily available from the United States Geological Survey the United States Corps of Engineers and other agencies

The source of stream flow records is shown in Table 1 columns 7 8, and 9 For each sampling point there is shown the location of the nearest stream gaging station, the operating agency, and the period of record.



TABLE I - SAMPLING STATIONS, COOPERATING AGENCIES, AND STREAM FLOW RECORDS

	MILES				OTHER	5TR	EAM FLOW RECORDS	
STATION	MOUTH		SAMPLED BY	FIELD ANALYSES BY	COOPERATING AGENCIES	NEAREST Gaging Station	OPERATED BY	PERIOD OF RECORD
priess five it facilities Parry, lift	PR.	Perry Landing, Sorth Store	Arksman State Veter Pollution Ocearol Completion	irinaan Birto Wrier Polisii on Gostral Gostanian	Azizmene Strin Board of Boalth	Little Beak, Arkenses	T.S. Grelogiasi Survey	1987 to date
et Pis, Seith, Sciences	3/20	T.S. Righmay No. St. Stridge	Arkennus State Valer Pollution Control Commission	iringum State Virter Pullstice Cortrel Countarion	Arizona Siria Mari of Smlth	Ten Stren, Artemate	U.S Geological Survey	UN to Acta
et Passe G. by, Griden	- 6 <u>-</u>	Old Fal, Righmy Ho,60 Bridge (formerly at Omes Station, Okla, One & Electric Co.)	Pomes Oilly Value Dept.	Continuated Off Co., Penns Ofty Water Depts. F.S., Politic Smith Services	Orlahema State Dapis, of Manigh	Enleton, Oklehous	U.S. Orological Survey	1936 to date
ri (<u>mlidy</u> , Emsis	1,000	Y.S Conlegion Survey Street Coging Station	0.5. Desirate Survey	5.5. Public Shelth Service	Ermes State Servi of Sealth University State Dept. of Sealth	Coolsign, Europe	U.S. Coolegisch Survey	1909, 1981 1990 to deba
OLIMINO HIVE et Inn., Arienn	л	Arizona Weter Co. Indon	Aris ma Vater Co.	irises Wrier Co.	Arihone State Dept.of Beelth	Tom, Ariston	T.A. Sunlegiat Servey	1578 to date
et Perior Des, Arisano-California	252	Aquadest Intele, Metropolitan Veter District of Septemen California	Newspaliten Wrier District of Southern California	Hetempolites Water District of Borthern Colifornia N.H. Public Health Marries	of Meelth	Julier Periory Day	Val. Sealogical Survey	10k to date
et Herrer Dam, Arizona-Browda	נגו	Bunlier Dity (Sereda) Water Plant Inteles	Rulder City Veter Days	Boulder Olty Weter Dept.	Broads Starte Dept. of Public Smalth U.S. Burnes of Bealtontins	Sherrer Dan	F.S. Restaginal Survey F.S. Revest of Residentics	led to date
nor Less, Calerdo	1,150	Propring Station at E. E. Anith Ferm	Manus County (Coloreds) Dept of Public Health	Oresai Jeantico (Galaredo) Variar Depi	Calerado Stato Dept. of Public Smalth	Hatr Columnic-Fish State Line	F.S. Galagiet Servy	1551 to ##
mar Claimingle, Gragos	מ	Barver Army Terminal, F.J. Army Trunsp., Supply & Kninkenspe, Command	U.S Army U.S Public Soulth Service	Orngun State Sectionry Auth. U.S. Public Soulth Service		Normarille Dum	U.S. Army, Curps of Engineers	1985 to date
rt Beneville Dat, Wastington-Oragon	υųς	Beneville Dam Pover Novan	F.3 Army, Compa of Englaments	Orom Zellerhesk Corp	Orașio Strie Sanitary Arth. Veskington Strie Daph. of Sanita Veskington State Pollytics Contral Continuion	Econovilla Dem	N.S. Amy, Owner of Engineers	1985 to 46 to
at Penns, Makington	7 127	Mondaipal Water Plant Inteln	Prace McLer Dept	Panes deter Dept	Vanidagion State Dept. of Health Unchington Plate Pollution Control Constantes	Trinidel, Vaskington	S.S Combaginal Survey	1513 to date
at Manutahan, Washington	465	Plant Inteles, Alexandre Go of America	Alastons to of America Chalan-Douglas County Smalth Dept	Alceins to af teries	Maskington State Dept of Realth Maskington State Pollation Control Constants	Trinidal, Vantington	F-3, Garlogian) Survey	1913 in date
above Burthfield, Mass	136	Destral Vermont Bull Bridge	Massakumetta Statu Dept of Public Health	Mnonephot still State Days, of Public Health (Industria Laboratory)		Parmon, Parmont	U-5. Osological Survey	1974, 1978 1984 to date

TABLE 1 - SAMPLING STATIONS, COOPERATING AGENCIES, AND STREAM FLOW RECORDS

	MLES		1		DTHE	STR	EAM FLOW RECORDS	
STATION	AB Q VE MOUTH		SAMPLED BY	FELD ANALYSES BY	COOPERATING AGENCES	NEAREST GAGING STATION	OPERATED BY	PERIOD OF RECORD
of Pellodelphin, Pa.	770	Employed Motor Flore Interior (Terrentalo Filtere)	Pid <u>inisipkia</u> Meter Dept.	Philadelphia Vater Days.	Pannaylvania State Dapt. of Realth	Truston, Bur Jarmy	S.E.Ocalogical Survey	1913 to date
pt Borton, 7s.	ля	Municipal Vator Flori Inten	Zerren Veter Dept.	Barton Water Days.	Pennsylvenia State Dept of Smalth	Relvisione, New Jersey	E.S. Geological Servey	1982 to date
pung tiru Lebu Bris at Bergala, B.Y	-	Hamilation Market Estable	Suffale Water Dept., Erle County (E.T.) Seel th Supt.	Eric County (M.Y) Health Dops rises;	Hear Torks Stanton Dought, of Hearlish	Cleveland, Onio (Writer Stages only)	U.S. Inka Survey	1900 to date
Betruit Liver et Betruit, Meligen	27	Smileton Meter Flank Intabe (Meter Merim Popt)	Dright Spent of Value Constactors	Detruit Heard of Vater Descriptions	Minigen State Rept. of Sealth Minigen State Vator Macuress Commission	Delevit, Makigan	U.S. Lake Survey	1936 to date
Lake Squarier at Relate, Missapple	-	Sectodard Maker Floris Inteles (Laborated Posping Stoklas)	Deliath Mater, One & Assesse Tree teach Copts	Dalath Mater, One & Serego Drestment Dept.	Minumenta State Dept. of Smelth	Marquette, Middigen (Marter Stages only)	U.S. Lake Survey	1900 to data
Lake Marigem at Sary, Indiana	_	they-linkert Meter Deep, Intain	Gary-Balants Webser Corp.,	Mary-Moteure Water Corp.	Intimos Mate Board of Smalth	(Arter stages calls)	U.S. Laim Survey	1905 to date
peter live balor freghinspele, L.T.	10 (set)	International Sealment Station of Corp., Flort String Interna	Interactional Partners Reactions Corp.	Internetized Series on Sechical Corp Ser York State Days, of Seal th	See Fact State Days, of See 1th	Green Island, Ber York	U.S Gunlagiani Survey	19kó to datu
of locally Recognistic	77	Cld Manietym), Matter Florit Intales	Lovell Worker Dept.	Management to State Dept. of Public Health (Laurence Experiment Station)		Lovell, Henry burgette	U.S. Omelogical Survey	1983 to data
COMPANY LITTE IN the Orlands, Inc.	105	Manistral Voter Flort Intaks	Her Orland Samps and State Marci	Lectrics State Days, of Belik	Louisiam State Dept of Smalth	her he Orlean, la	U.S. Geologiani Servey	1998 to date
ot Celta, Locisiana (formerly et Plais hary, Maximirei)	الله	Hiver Landing, Delta Costing Tard, T.J., Curps of Engineers	Mandasippi State Stand of Smilth	Minutesippi State Roard of Marith	Lowisians State Dopt of Moslith	her Velsburg, Him	0.3 Geological Survey	1931 to date
at Vert Benchis, Ark.	726	Barge Fundinal, Chishess— Vissiandyyd River Products Linus, Ins	Maghis (Tomasan) Light, Dan & Voter Division	Despits (Tunnasme) Light, See & Water Division	Arkaness State Board of Heelth Tennesses State Dept of Heelth	Hamphis, Tecnomes	U.S. Guelogical Servey	1934 to date
st Caps Circrisco, No	1,500	Missauri "tilities Co., Mater Intern	Miasauri Deilities Ce	Hissouri Diilitiss Co	Missouri State Dept, of Potic Bealth & Welfere	Thebas, Illienia	W.S. Geological Survey	1933-1936, 1939 to data
at Dark St. Lexis, I.i.	1,146	East St. Louis bates in Intelle	East St. Louis Water On	Bast St Lords Weter Co	Illinois State Dept. of Public Scalth	ilton, Illinois	U.3 Geological Servey	1933-1936, 1939 to data
et Burlingson, Issa	1,3±9	Photospal Weser Float Intelle	Borlington Water Dept	Berlington Vater Dept.	Invadinte Dept of Health	Locksk, Isaa	U.S Dealegical Survey	1878 to data
et Dubaque, Ione	1,50	C.J Army, Compt of Englacers Local & Des yll	Dubeupos Valuer Dept	Dohoque Vater Dept	Ices State Dept of Smalth	Hollragor, Love	U.Z Geological Survey	1936 to date

TABLE I - SAMPLING STATIONS, COOPERATING AGENCIES, AND STREAM FLOW RECORDS

	MILES				OTHER	STRE	AM FLOW RECORDS	
NOITATE	MOUTH	DESCRIPTION	SAMPLED BY	FELD ANALYSES BY	COOPERATING AGENCIES	NEAREST GAGING STATION	OPERATED BY	PERIOD OF RECORD
empy nive (seed (d) ve find Ming, Mins.	1,151	U.S. Army, Curps of Regimenry Last & Dam #3	W.S. Away, Curps of Engireers Elemenpolis-Dt. Paul Sanitary District	Excession Pt. Perl. Butlery Matrick	Minemaria State Bayt., of Smilth	Promottly Vilanuaria	8,5, Geological Survey	1925 to date
er grad tt. ionis, Elsvari	36	Writer Flant Intake, St. Louis County State Os. and Saure Sant Plant, City of St. Louis	196. Lends County Writer Co. 196. Londs Writer Dept.	Dt. Lords Gously Writer Os Bt. Lords Writer Days,	Minimum Shute Dapt, of Public Real to a Walfare	Berner, Massert	T.S Geological Survey	1897 to date
Dame City, Drawn	365	Manufactural Water Floris Intelle	Ensure City (Emess) Board of Public Publishes	Error City (Expen) Reset of Public Philippe	Course State Bound of English	Davis (Lty, Emily	S.S. leelagical Survey	1897 to Sets
ii, kap, Kaari	LT2	St. Jamph Water Co., Intaks	Die James Meter Co.	Pt., Joseph Value Co	Missouri State Depts of Public Numbble & Malfore	St. Josph, Hanceri	V.S. Qualogical Durvey	1,527 to date
Carrier, Malorentes	641	Metropoliten Utilities Dist., Meter Flant Intels	Materopolitan Vellities District	Notempolitan Vellities District	Nebruska State Dapt. of Spilits	Combin, Softwarks	U.S. Gualogical Survey	1,928 to Aste
Tankhen, South Daketin	541	Manisipal Wrier Flast Intels	Tentrica Veter Days,	Yankton Weber Dapts	Aceth Datoba Starta Bourd of Bankth	Yashtun, South Dalcots	U.S. Geological Servey	1/30 to fets
Manurak, Igrik Dakota	1,377	Secietyal Veter Flori Intelio	Massaruk Weber Daph	Manuruk Wrier Daps . North Dekoka Sinte Daph, of Balik		Hamrel, Birth Detrie	U.S Geological Servey	1,987 to decis
Willisten. Jurith Date stee	1,64	Hesterpel Meter Plant Intelle	Williams Water Dept.	Villiston Weber Dept.	Marth Detota State Dept. of Meelth	Villisten, North Debota	U.S Seelogical Survey	1,42d to date
nen Gir, Illimia	. د	Ondre Meter On Intelle	Ondro Water Do	Order Writer Da.	Thirds State Dapk of Public Smalth	Briropolis, Illinds	U.S. Seelogical Survey	153k to dete
benedile, Island	150	Benisipal Water Floor Intelle	Eveneville Water Dept.	Descrilla Wrige Dapi.	Indian State Speed of Smalth	Presville, Indian	U.S. Oschogisel Survey	1536 to date
Cincinanti, Orio	50.0	Marrielpel Water Flant Intella	Circian M. Weter Dept	Cincinenti Water Depte	Orio State Dept. of Bealth	Ciminati, Ocio	U.S Decloyiet Survey	1,536 to deta
Bertington, art Einglich	517	Sentington Vater Co., Intaks	Bunkington Water Corp	Suctington Veter Ocep	Neart Virginia State Dept of Smalth	Partington, Work Virginia	U.S. Garlegiesh Survey	13% to date
het Liverpool, Ohio	*1	Mencicipal Writer Floor Intelle	East idrerpoal Mater Dept	East Liverpool Veter Dept.	Dicks State Copts of Smalth	Redship, Pennylveda	N.S Contogical Survey	1933 to date
90 EIVEL Dreet Falls,Karyland	1146	Vanisington, D.C. Vater Flant Inteks	U.S Army, Corps of Segments	U.S Army, Corps of Engineers	Maryland State Dept. of Bealth	New Vestington, D,C	U.S Sunlogical Survey	1930 to darks
Millianguert, oryland	223	Nagarutoun Menisipal Water Flant Inteks	Naguestara Veter Dapt	Regardam Veter Dept.	Maryland State Dept. of Bealth	Happardstonn, Wast Firginia	W.5 Smalogical Survey	1988 to date
llyn Maxmiria, La	122	Pomping Strking on Leven, macr City While	Alexandria Water Dept	Lowisians State Dept of Health (New Brisans Leburatory) Loni diama Siete Dept of Health (Alexandria Laboratory)	Londstans State Dept. of Seelth	Alexandria, Legistana	Electropy River Constantion U.S Conlegical Survey	1525-1538 1538 to date

TABLE I - SAMPLING STATIONS, COOPERATING AGENCIES, AND STREAM FLOW RECORDS

	MLES				OTHER	STRE	AM FLOW RECORDS	
STATION	ABOVE MOUTH	DESCRIPTION	SAMPLED BY	FELD ANALYSES BY	COOPERATING AGENCIES	NEAREST GAGING STATION	OPERATED BY	PERIOD OF RECORD
ECTRE (Cond-ta) at Dates, believes	las	Volt Mighway Say Th Bridge	Tunning Tries & Some Syrides Armena Sin to binter Polisii on Control Demission	Arkumaan State Weter Pallstion Captual Cannin si m	Artemate State Roard of Health	Inter, Artemen	W.H. Deslogical Survey	1936 to date
at Desires, Tena	734	Spalera Sta Paser Space	Lis May, Corpo of Septembers	Descripton Water Dept	Zazio Statu Dapti, af Boolth	Near College, Oklahem	9.5 Ocological Survey	1983 to date
ED) Elizab et Larube, Yugar	.5	Sectorial Value Flori Interio	Lurado Mesar Sapt.	Laredo Vator Dapit.	Texas State Dapt, of Soulth	Sair Surve Levels, Maxime	Series Sortion, Interestional Seculary & theor Confession	1923 to date
Pl II Pert, Years	1,2%	Bundripal Meter Flort Intain	El Pass Public Service Servi	El Paso Public Service Restri	Tomms She to Dopt, of Health	Balor (minile lies, les Baciso	U.S. Sorbies, Interestional Researcy & Writer Constantion, and U.S. Conlegical Servey	1889 to data
SANIMA NENE at Part Hadrania, Secreta	2	Sente Mathemy Se, 17 Scidan	Mades Bay-Doop Paper Co., M.J. Arby, Garpe of Baylanears Chattern County Smiles Dopk.	Briss Reg-Comp Paper Co., B.S., Poddip Shalth Pervise	Deorgia Pinto Dopt, of Public Smalth	Clyo, Overgia	R.S. Oselogisel Survey	1930-1933, 1937 to dela
at Harth Asympte, South Corollin	זבז	Heddigal leter Plant Intain	Marth Augusta Mater Dopt,	Serti Augusta Unter Dept	Startic Correline State Starre of Smalth	Augusta, Georgia	P.S. Geological Survey	1595-1906 1987-1991 1935 be data
	' '		tree Calling	Makington Plate Gallege	Maniel ny fien de Marie Dupie, al Maniel di	Beer Clarketon, Waltington	5.5. Orologisal Survey	1915 to data
			m. Dept.	Walner Valor Days	Lists State Board of Saulth	Weiner, Idaho	J.S. Geological Survey	1910 to date
	, !		-	City Marker Company of Cherksonyge Thurmanne Valley Anthorrity	Temmenter Phala Dopt, of Public Health	Chattanaga, Taxanian	J.S. Geological Survey	1876–1913, 1915–1930 1936 to deta
et Biday, Barton		Inteks-Louis & Grank Station Mentans-lokata Philitias Co.,	Montana Dalasta Philitics Co.	Marchann-Dakota Philither Company	Norton State Noted of Health	Her Eldney, Montana	Li teological fervey	19 % to date
	;							
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EXPLANATION OF DATA

RADIOACTIVITY DETERMINATIONS

A dash in the column for the count signifies that that particular measure was not done.

PLANKTON POPULATION

Blanks in any column are to be read as meaning that none of the organisms for that column were found. The column heading "Dominant Organisms" should be interpreted in connection with the table below as follows 5-946 should be interpreted that the fifth organism of the first column, Chlorella, was named. None of the organisms in the second column of the table was named. The 9 is the ninth item in the third column of the table - Stephanodiscus, 4 is the fourth item in the fourth column - Diatoma, and the 6 is the sixth item in the fifth column - Fragilaria. Five dashes in the column of "Dominant Organisms" mean that none was named for that report.

PLANKTON--DOMINANT ORGANISMS

	I	п	ш	IV	v
1.	Additional Filamentous Green Alga	Additional Green Flagellate	Actinastrum	Golenkınıa	Additional Pigmented Flagellate (other than green)
2.	Anabaena	Aphanizomenon	Additional Desmid	Additional Coccoid Green Alga	Additional Coccoid Blue-Green Alga
3.	Asterionella	Cryptomonas	Anacystis	Chlamydomonas	Additional Distoms
4.	Gyclotella	Cyclotella	Ciliates	Diatoma	Additional Filamen- tous Blue-Green Alga
5.	Chlorella	Gomphonema	Coelestrum	Cymbella	Ankistrodesmus
6.	Comarium	Oscillatoria	Dinobryon	Nitzschia	Fragilaria
7.	Synedra	Peridmum	Navicula	Synedra	Melogira
8.	Euglena	Scenedesmus	Oocystis	Tabellarıa	Micractinium
9.	Phormidium	Unpigmented Flagellate	Stephanodiscus	Tribonema	Sarcodina

ORGANIC CHEMICALS

The data entered relating to extractables are in micrograms per liter or parts per billion. Zeros when reported have been entered. A dash indicates that the respective results were not reported.

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

The data entered in each column are as reported. A dash signifies that the particular test was not performed. Zeros

when meaningful have been entered. An asterisk preceding a coliform count should be read as "less than" the number following it.

TRACE ELEMENTS AND OTHER DETERMINATIONS

For a discussion of the sensitivity limits of the determinations performed with spectrographic methods, see page 21.



RADIOACTIVITY DETERMINATIONS

Gross radioactivity levels are informative in avaluating long-term trends or changes in water quality. By themselves, however, they are of limited value in assessing radiation exposure. Where gross results are consistently over the maximum permissible concentrations for mixed fission products, the identity of the specific radionuclides involved must be established. Because of the importance of Strontium-90 in the environment, this year's data also includes the contribution of this long-lived radionuclide to the dissolved activity reported. The levels found were all well below the maximum permissible concentration as defined in Handbook 69, see Bibliography Reference 18.

WATER QUALITY BASIC DATA

RADIOACTIVITY DETERMINATIONS

STATE

ARKANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI

SUB BASIN

ARKANSAS RIVER-VAN BUREN TO MOUTH

STATION LOCATION ARKANSAS RIVER M44.5 AT

PENDLETON FERRY ARKANSAS

	Τ		BAD	OACTIVITY IN V	VATE		1 7	m A Debro A	CTIVITY IN PLA	1 Trong () 1		1000				
DATE	DATE OF	ALPHA BETA						1 1	DATE OF		ACTIVITY	1	BADIOACTIVITY IN WATER FROM ACTIVITY			
TAIDIN	MATICAN	SUMPTOLINED	DIMOLVED	TOTAL	SUBPERIORS	DIRECTARD	TOTAL	1 1	PATION -			┨				
MO DAY TELE	HOSTE DAY	##=/I	## -√1	ppe/1	## 4/ 1	₩ •⁄1	##e/1	1	MO DAY			1				
	MATION									ALPHA ARW 4	META And g		SUPPORDED AFA/L	PAR()	TOTAL AMA'I	

WATER QUALITY BASIC DATA

STATE

ARKANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ARKANSAS RIVER. TULSA TO VAN BUREN

STATION LOCATION ARKANSAS RIVER NEAR

FORT SMITH, ARKANSAS

PATE		$\neg \neg$				RAP	ACTIVITY IN V	/ATE		EADIOACTIVITY IN PLANETON (447)					RADIOACTIVITY IN WATER			
EARPLE TARM	Ì	DATE OF DETERMI HATION									. I	SACIS ACTIVITY			SPONS ACTIVITY			
		MAT	TOH	SUMPROMOTO	DISCOLVED	TOTAL	SUSPENDED.	DIFECUTO	TOTAL	DATE OF DETERMI HATTON	ĽΓ	ALPHA	BETA	SUSPERIORD	SUSPECIOED	DIMOLVED	TOTAL	
D4.	Y	ш	MAKTN	DAY	ppe/\	par/l	884 /I	JLPRE/1	###e/1	ppe/l	MO D	44	44-/9	April 1		APA/I	##•/I	ppe/l
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WATER QUALITY BASIC DATA

STATE

OKLAHOMA

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ARK. RIVER, KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER AT

PONCA CITY, DKLAHOMA

DATE				EAD	OACTIVITY IN Y	WATE		\Box	IADIOA	TIVITY IN PLA	METON (Hy)		BADIOACTIVITY IN WATER				
EARTE	DATE OF		ALPHA			BETA]	DATE OF		ACTIVITY		SHOW ACTIVITY			
TAKEN	MA.	TION .		DISSOLVED	TOTAL	SUBPRIOR	PLEADLYED	TOTAL]	MATION	ALPHA	BETA	SUSPERIOR	DUMOLVED	TOTAL		
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RADIOACTIVITY DETERMINATIONS

STATE

KANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

BUD BASIN

ARK. RIVER, KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER AT

COOLIDGE: KANSAS

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STATE

KANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ARK. RIVER, KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER AT

COOLIDGE, KANSAS

DATE OF PART
No DAY TAR DORTH DAY APA'

STATE

ARIZONA

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

SUD BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

YUHA, ARIZONA

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STATE

ARIZONA

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

YUMA: ARIZONA

	_	_				EAD!	DACTIVITY IN W	VATER .			_	PADIDA	CTIVITY IN PLA	HOTTON (deal		ADIOACTIVITY IN V	VATE:
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STATE

CALIFORNIA

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

PARKER DAM, ARIZONA-CALIFORNIA

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STATE

CALIFORNIA

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

BUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

PARKER DAM: ARIZONA-CALIFORNIA

AMPLI DATE OF DETERMINATION SUSPENDED DISSOLVED TOTAL SUSPENDED DISSOLVED TOTAL DATE OF DETERMINATION ALPHA SETA SUSPENDED DISSOLVED TOTAL					E AD:	DACTIVITY IN Y	YATE				DIOA	TIVITY IN PLAN	MITTER CALLS	т	BAD	SACTOUTY BY W	/AT=
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STATE

NEVADA

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER NEAR

BOULDER CITY, NEVADA

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STATE

NEVADA

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER NEAR

BOULDER CITY. NEVADA

				IAD:	OACTIVITY IN V	VATE			BADIOA	CTIVITY IN PLA	HETON (der)		RAC	HOACTIVITY IN Y	/ATEL
DATE	DAT	T DF	T	ALPHA			BETA		DATE OF		ACTIVITY	1		CROSS ACTIVIT	
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MO DAY TEAM			##•/T	AAc/I	AFE/	p.p.c/l	A#e/I	##•/1	MD DAY	A4-/-	APe/g		μμω/ Ι	A# c/1	A.R.a/1
7 6 59 7 13 59 7 28 59 8 4 59 8 11 59 9 1 59 9 1 59 9 14 59 9 22 59 9 29 59		15 29 4 11 13 26 2 11 15 22 30 8		DIMEDLVED		+	DLESCOLVED		MATION -	ALPHA	BETA			DISMOLVED	TOTAL

ATAC SIRAS YELLAUD SETAW

STATE

COLORADO

MAJOR BASIN

COLORADO RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

UPPER COLORADO RIVER

STATION LOCATION

COLORADO RIVER NEAR

LOMA, COLORADO

DATE	1			EAD	KOACTIVITY IN Y	YATE			BADROA	CTIVITY IN PLAN	MUCH (Ay)		HOACTIVITY IN W	ATEL
MANUEL	BATT	OF		ALPHA		T	WETA		DATE OF	820E	CTIVITY		MOSS ACTIVIT	Y
TAITEM	DETE	2	#V#******	DHINGLAND	TOTAL	SUMPLIFICATION OF THE PERSON O	DIMOLVED	TOTAL	PATION	ALPHA	BETA		DIMOLVID	TOTAL
O DAY TEM	Hemma	DAY	PAGE.	APA/1	AA-c/1	μ ρ -ς/1	AA-c/l	дре/1	MO DAY	p.p.e/p	APP/g	#•∕1	ARe/I	## ~ /1
D 6 58	10	15	_	_	_	22	58	80						
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1 10 58	ii	25	_ :	_	_	0	52	52						
1 17 58	îż	1	_	_	_	239	49	368	1 1					
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2 1 58	12	15	0	ō	ō		21	29						
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1 19 59	Ž	5	1	-	_	20	72	92						
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7 6 59	7	17	i c	ō	ō	21	35	56	1 1	1		1	1	
7 20 59	В	- 5	2	7	9		86	86						
7 27 59	В	10.	7	7	14	27	27	54	J		1]]	1	
8 4 59	В	12	4.2	7	49	32	21	53						
E 18 59	9	3	3	5	В	44	34	78			1			
9 8 59	5	17	- 1	- 1	-	20	65	85		}			1	
9 14 59	9	23	1	11	12	12	34	46						
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9 28 59	10	5	z	15	17	44	21	65						
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STATE

OREGON

MAJOR BASIN

PACIFIC MORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER NEAR

CLATSKANIE, OREGON

DATE	r			IADI	OACTIVITY IN V	VATER				EADIOAC	CTIVITY IN PLAN	SCICON (day)	w	HOACTIVITY IN V	VATER
EARPLE	DATE	9.		ALFHA			DETA		1 1	DATE OF		CTIVITY		MOME ACTIVIT	·
HEDLAT	HATIS	*		DIMOLVED	TOTAL	FUETENDED	DIFFECTIVED	TOTAL	1 1	HATION	ALPHA	BETA	#USPEDIDED	DIMMOLVED	TOTAL
HO DAY TELE	HOETH I	DAY	p.m.e/1	###\	## = /1	AFe/I	/LAN/1	,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		MO DAY	APW/W	AAc/g	AFe/1	p==/1	p.p.c/T
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10 27 58		13 18	_		_	16	129 248	145	1 1						
11 3 58		24	_	_	_	20	105	268							
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1 12 59		30	-	-	_	100	93	193	! I					, ,	
1 19 59	2	6	- 1	-	-	67	137	204				1			
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2 9 59	3	2	-	-	-	63	61	124	1 1						
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3 16 59	l .	27	-	_	-	67	111	170				1			
3 23 59	4	6	0	0	0	83	165	248							
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4 13 59		2 B	-	-	-	38	138	176				l l			
4 20 59	5	4	0	1	1	45	178	226							
4 28 59		12	-	-	-	44	175	219							
5 4 59		18	-	-	-	104	101	205)		j		1		
5 11 59		25	-	-	-	168	295	463							
5 18 59	6	1	-	-	-	33	74	107							
5 26 59	6	9	0	0	0	90	91	181					1		
6 1 59	1	15	-	-	_	36	116	152							
6 B 59		30	-	-	-	23	138	161							
6 15 59	7	2	-	-	-	57	97	154			ļ				
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STATE

OREGON

MAJOR BASIN

PACIFIC NORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER NEAR

CLATSKANIE . OREGON

DATE				BADE	DACTIVITY IN V	YATER			EADIO	ACTIVITY IN PLA	NECTON (Ay)	PAC	HOACTIVITY IN Y	/ATER
SAMPLE	DATE	GF.		ALPHA		T	MITA		DATE OF	G.Papard	ACTIVITY		SHORE ACTIVIT	Ϋ
TAXEN	HAT	ī	#UPP DADED	DIMOLYED	TOTAL	SUSPENDED	DIMPOLVED	TOTAL	HATION	ALPHA	BETA	FUEPENDED	DI SEDLVICO	TOTAL
DAY TEAR	B-0017E	DAY	AP-o/I	##e/1	ppe/I	AFe/I	##e/T	pte/l	MO DAY	A44/	pp./g	A4-4/1	AAC/I	AA4/I
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20 59		3	-	-	-] 5	84	89	- 1	l]]	1 1		
28 59		7	0	0	0	23	85	10					l	
3 59		14	-	- i	-	12	146	158	1	1	1	1 1		
10 59		19	-	-	-	19	149	168	1	l	1	1 1	l	
18 59		20		- 1	-	20	51	71						
24 59	•	2	0	0	0	17	194	211		ł	ł		1	
31 59 8 59	9	14	- !	-	-	20	195	215	į		1	ľ	!	
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21 59	10	. 5	0	0	0	20	218	238			1	ŀ		
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STATE

OREGON

MAJOR BASIN

PACIFIC NORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

BONNEVILLE, OREGON

				EADK	ACTIVITY IN W	/ATEL			Т	EADIDAG	TIVITY IN PLAN	ETON (dry)	RAD	CACTIVITY IN V	ATER
BATTI Marcii	DAT	t of		ALPHA			META		1 [DATE OF	Litom /			REPORT ACTIVIT	7
TAREN	DIATE			DISSOLVED	TOTAL	SU SPENDED	DISSOLVED	TOTAL	1	NATION	ALPHA	BETA	SUMPERIOR	DISSOLVED	TOTAL
MO DAY YEAR			P#4/ 1	##e/1	AFG/I	ppe/I	μμ ₄ /1	ppe/l	1	MO DAY	44	P.S./	###/I	APe/I	###/I
											_				
10 6 50	10	17	-	-	_	18	291	309	1 1						
10 13 56	10	28	_		-	•	206	214						!	
10 20 58	11	5	•	1	1	7	276	283							
10 27 58	11	13	-	-	-		313	319						i	
11 10 56	11	24	_	-	-	19	279	278							
11 17 58	12	1	_		-	19	246	265	ł					ì	
11 24 58	12	10	•	1	1	16	27	43	1	Į.				1	
12 1 56	12	16	0	0	0	15	133	148						. 1	
12 8 56	12	23	-	-	-	30	202	232						1	
12 15 58	1	7	-	_	-	81	160	241						1	
12 22 56	1	13	-	-	-	61	133	164	1						
12 29 58	1	20	0	0	٥	22	204	226	1 1	Ì					
1 5 59	1	22	-	-	-	9	30	39							
1 12 59	1	29	-	-	-	62	190	252							
1 19 59	2	9	-	_	-	71	199	270	1 1						
1 26 59	2	13	0	0	0	99	184	203		ļ		· ·	i i		
2 2 59) 2	18	- 1	_	_	142	218	360		1)	· · · · · · · · · · · · · · · · · · ·	Ì	
2 9 59	3	3	-	-	-	57	504	561							
2 16 59	3	9	0	0	0	40	184	224							
2 24 59	3	12	•	1	1	59	327	386							
3 2 59	3	13	-	- 1	-	56	363	449					1 1		
3 9 59	3	23	_	_	_	66	328	394							
3 16 59	3	30	-	_		113	474	587						ļ	
3 23 59	 +	6	0	0	0	50	236	286		ļ					
3 30 59	4	13	-	_	-	61	264	325				1			
4 6 59	+	20	-	-	-	52	21B	270	1						
4 13 59	 •	28		-	_	44	176	220							
4 20 59	5	4	1	2	3	55	231	286	1 1						
4 27 59	5	12	_	- '	_	64	176	240	1 1						
5 4 59	5	18	-	-	-	49	95	144							
5 11 59	5	25	_	-	-	95	1 B 4	279				İ			
5 18 59	6	1	_	_	-	36	72	108							
5 25 59	6	9	0	0		28	94	122							
6 1 59	6	16	-	-	-	28	100	12B		l					
6 B 59	6	19	-	-	_	26	76	102						Į.	
6 15 59	7	2	-	_	_	47	118	165				-			
6 22 59	7	9	-	-	-	26	167	193		Ì					
6 29 59	7	14	_	-	-	49	90	139	1 1	ì			 		
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STATE

OREGON

MAJOR BASIN

PACIFIC MORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

BONNEVILLE, OREGON

					2124	ACTIVITY IN V	VATED .			EADHOAG	TIVITY IN FLA	ROOM (dry)	RAD	CACTIVITY IN Y	YATE
DATE		·	1		ALPHA	DALITHI BY		BETA				VCTIVITY		GROSS ACTIVIT	Y
TAKE		DATE		EUSPENDED	DIMIDLYID	TOTAL	BUSPLNDED	DIMOLVED	TOTAL	DATE OF DETERMI HATION	ALPHA	DET A		DISSOLVED	TOTAL
O DAY				##eri	Apr/1	APE/I	pac/1	A4c/I	ppe/l	MO DAY	#4/j	ppu/	###/I	A#e/l	AA-/1
G , DAY	11.25			770	~ 1		,	,,,,,	ĺ	i i			1		
7 6	59	7	17	-	-	-	8	73	81						
7 13	59	7	29	-	-	-	7	107	114	1 1			1		
	59	7	31	-	-	_	19	120	139						
7 27			11	0	0	0	56	80 124	166						
	57		14	-	-	-	85	391	476	i i			l l		
10		8	20	-	_	-	19	122	141						
8 17 8 24		9	28 2	0	0	0	27	217	244						
9 21		9	30	Ö	o l	ō	25	249	274	1 [į	
9 28		10	12	_	1	-	18	328	346						
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RADIOACTIVITY DETERMINATIONS

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

SUD BASIN

MIDDLE AND LOWER SMAKE RIVER

STATION LOCATION COLUMBIA RIVER AT

PASCO, WASHINGTON

				BADI	OACTIVITY IN Y	VATER				BADROA	CTIVITY IN PLAN	BCTCH (dry)	EAG	HOACTIVITY IN W	ATH
DATE	DAT	E OF		ALITHA			BETA			DATE OF	Mines A	спупу		CHOIN ACTIVIT	Y
TARTE	DETE	TON_		DIMOLVED	TOTAL		DIMMOLVED	TOTAL		NATION	ALPHA	DETA	MUNICHPEN PHED	DIMBOLVID	TOTAL
MO DAY TEAR	JI ONTTH	DAY	ppe/I	ββα/I	ppe/1	p.p.c/l	AA-e/1	Apa/1		MO DAY	A4e/y	April g	A#e/I	##e/1	# # -√1
				_	_		1007	1045		l i				l I	
10 6 58	10	21	- 0	1	1	38 73	1007 654	1045 727]					
10 20 58	11	15		_	-	86				1 1				1	
10 28 58	11	13	_	_	_	71	548 465	634 536		í l					
11 3 58	11	1 B 2 O		_	_	56	680	736		1 1		1			
11 10 58	11		_	_	_	31	493	524							
11 10 58	12	18	_		_	78	958	1036							
12 1 38	12	24	_	_	_	91	568	659		1		[
12 8 58	1	9	_	_	_	56	369	425		1		1	1	1	
12 15 58	l i	26	_	_	_	93	488	581		1		}			
	l i	29	_	_	_	68	724	792		1					
1 12 59	2	5	_	_	_	77	533	610		i '				1	
	2	12	2	o	2	209	452	661				1		1	
1 26 59 2 2 59	2	17	_		_	77	406	483				1		1	
2 9 59	3	3	_	_	-	43	420	463							
2 16 59	3	6	_	_	_	71	779	850	1						
2 24 59	3	16	0	3	3	552	95	647		1					
3 Z 59	3	13	_	_	_	128	862	990		1					
3 9 59	3	23	_	_	_	69	508	577	1			} }		1	
3 16 59	1	30	-	_	_	52	218	270	[j i	
3 23 59	4	- 2	3	4	7	194	1034	1228						j j	
3 29 59		13	_	-	_	73	431	504						1	
4 13 59	4	28	_	_	_	68	623	691				1			
4 20 59	5	5) o	5	5	81	592	673							
4 27 59	5	13	l –	! -	_	161	247	408				i l		i i	
5 4 59	5	ī B	2		2	119	341	460						(
5 11 59	5	25	-	-	i -	33	198	231) <u> </u>			
5 18 59	6	1	–	_	-	21	205	226)			
5 25 59	6	9	2	1	3	8	180	188				l ì		1 1	
6 1 59	6	16	_	l –	-	31	105	139				i l	ì		
6 8 59	6	19	_	l –	-	11	123	134				1 1			
6 15 59	7	2	_	_	-	34	119	153							
6 22 59	7	9	-	-	-	17	BO	97				1 1	Ì	1	
6 29 59	7	14	-	_	_	4	108	112)			1 1			
7 6 59	7	17	-	_	-	15	165	180	1	1		1 1)		
7 13 59	7	30	_	l –	_	2	99	101				1 1			
7 20 59	8	3	_	l -	_	17	157	174				1 1			
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STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION COLUMBIA RIVER AT

PASCO, WASHINGTON

SATE OF SATE	TY IN WATER
TABLE SUPPRINCED DISSOLVED TOTAL SUSPENDED DISSOLVED TOTAL NAME TOTAL NAME NAM	ступу
NO DAY TEST DAY ARM	VIED TOTA
8 10 59 8 20 77 385 462 8 17 59 8 31 49 381 430 8 24 59 9 3 0 1 1 52 406 458 8 31 59 9 15 26 608 634 9 8 59 10 30 12 229 241 9 14 59 9 24 52 384 436 9 21 59 10 5 0 0 0 6 379 385	// ****
8 10 59 8 20 77 385 462 8 17 59 8 31 49 381 430 8 24 59 9 3 0 1 1 52 406 458 8 31 59 9 15 26 608 634 9 8 59 10 30 12 229 241 9 14 59 9 24 52 384 436 9 21 59 10 5 0 0 0 6 379 385	
8 17 59 8 31 49 381 430 8 24 59 9 3 0 1 1 52 406 458 8 31 59 9 15 26 608 634 9 8 59 10 30 12 229 241 9 14 59 9 24 52 384 436 9 21 59 10 5 0 0 6 379 385	1
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STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

COLUMBIA RIVER ABOVE YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

WENATCHEE, WASHINGTON

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EARLY.		DAT	E OF		ALPHA			PETA			DATE OF	Section 2	₩ TIVITY		SHOWS ACTIVIT	Y
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STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

COLUMBIA RIVER ABOVE YAKIMA RIVER

STATION LOCATION

COLUMBIA RIVER AT

WENATCHEE, WASHINGTON

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STATE

MASSACHUSETTS

MAJOR BASIN

MORTHEAST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

CONNECTICUT RIVER

STATION LOCATION CONNECTICUT RIVER BELOW

NORTHFIELD, MASSACHUSETTS

	т			EAD	DACTIVITY IN V	VAJEL				RADIOA	CTIVITY IN PLA	ACTON (day)	<u> </u>	DICACTIVITY IN	WATER
DATE Livere	DAT			ALPHA			BATTA		i			CTIVITY		BROSS ACTIVE	TY
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STATE

PENNSYLVANIA

MAJOR BASIN

NORTH ATLANTIC

RADIOACTIVITY DETERMINATIONS

SUB BASIN

DELAWARE-SCHUYLKILL RIVERS

STATION LOCATION DELAWARE RIVER AT

PHILADELPHIA, PENNSYLVANIA

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STATE

PENNSYLVANIA

MAJOR BABIN

NORTH ATLANTIC

RADIOACTIVITY DETERMINATIONS

SUB BASIN

DELAWARE-SCHUYLKILL RIVERS

STATION LOCATION DELAWARE RIVER AT

PHILADELPHIA. PENNSYLVANIA

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STATE

PENNSYLVANIA

MAJOR BABIN

NORTH ATLANTIC

RADIOACTIVITY DETERMINATIONS

SUB BASIN

DELAWARE-LEHIGH RIVERS

STATION LOCATION DELAWARE RIVER AT

EASTON: PENNSYLVANIA

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STATE

NEW YORK

MAJOR BASIN

NORTHEAST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LAKE ERIE-NIAGARA

STATION LOCATION LAKE ERIE AT

BUFFALO, NEW YORK

DATE					BAD	OVCIIALIA IN A	WATER				RADIOAC	TIVITY IN PLAN	ECTON (dry)	EAD	HOACITYITY IN Y	ATEL
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STATE

NEW YORK

MAJOR BASIN

NORTHEAST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LAKE ERIE-NIAGARA

STATION LOCATION LAKE ERIE AT

BUFFALO, NEW YORK

DATE				2.4	CACTIVITY IN V	MATEL			BADN	ACTIVITY IN	PLANETON (day)	RAE.	HOACTIVITY IN V	VATER
IAWAI	DA.	11 0	1	ALPHA		1	BETA				- ACTIVITY		BROWN ACTIVITY	
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STATE

MICHIGAN

MAJOR BASIN

WESTERN GREAT LAKES

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ST. CLAIR-DETROIT RIVERS

STATION LOCATION DETROIT RIVER AT

DETROIT. MICHIGAN

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STATE

MICHIGAN

MAJOR BASIN

WESTERN GREAT LAKES

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ST. CLAIR-DETROIT RIVERS

STATION LOCATION DETROIT RIVER AT

DETROIT, MICHIGAN

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			DAT	T 97		ALPHA		1	ETA.		1			ACTIVITY		SROES ACTIVIT	Y
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STATE

MINNESOTA

HAJOR BASIN

WESTERN GREAT LAKES

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LAKE SUPERIOR

STATION LOCATION LAKE SUPERIOR AT

DULUTH, MINNESOTA

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STATE

MINNESOTA

MIRAS ROLAM

WESTERN GREAT LAKES

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LAKE SUPERIOR

STATION LOCATION LAKE SUPERIOR AT

DULUTH: MINNESOTA

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STATE

INDIANA

MAJOR BASIN

WESTERN GREAT LAKES

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ST. JOSEPH RIVER

STATION LOCATION LAKE MICHIGAN AT

GARY: INDIANA

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STATE

INDIANA

NIBAE ROLAH

WESTERN GREAT LAKES

RADIOACTIVITY DETERMINATIONS

SUB BASIN

ST. JOSEPH RIVER

STATION LOCATION LAKE MICHIGAN AT

GARY, INDIANA

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STATE

NEW YORK

MAJOR BASIN

MORTHEAST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER HUDSON RIVER

STATION LOCATION HUDSON RIVER BELOW

POUGHKEEPSIE. NEW YORK

DATE					RADH	DACTIVITY IN V	VATE:			RADIOA	CTIVITY IN PLA	HEITON (Hy)	BAD	HOACTIVITY IN W	/ATE
EAMP		DAT	E DF		ALPHA	_		BETA		DATE OF	EACH.	ACTIVITY		SROW ACTIVIT	Y
TAKE	4	DETE	TON		DIEMOLVED	TOTAL	SUSPECTED STO	DIMOTAED ,	TOTAL	MATION	ALPHA	BETA		DISSOLVED	TOTAL
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STATE

NEW YORK

MAJOR BASIN

NORTHEAST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER HUDSON RIVER

STATION LOCATION HUDSON RIVER BELOW

POUGHKEEPSIE, NEW YORK

PATE					PANA	OACTIVITY IN V	YATTI			-	DIOAG	TIVITY IN FLA	HICTORY (Mry)		BAE	HOACTIVITY IN Y	/ATER
LAMPU		DAT		T -	ALPHA		 	BETA		DATE	of	BROWN .	ACTIVITY	1		SROOM ACTIVIT	-
TAKEN		PETT	E of Ball - TOH		DUMOLVED	TOTAL	sve-proto	DUPPOLYED	TOTAL	DETE	껪	ALITHA	BETA	1	SUSPENDED	DISSOLVED	TOTAL
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STATE

MASSACHUSETTS

MAJOR BASIN

NORTHEAST

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MERRIMAC RIVER

STATION LOCATION MERRIMAC RIVER ABOVE

LOWELL, MASSACHUSETTS

DATE				BAD	OACTIVITY IN V	WATER				RADIOA	CTIVITY IN PLA	NETON Hay)	IIA.	HOACTIVITY IN Y	VATER
EAMPLE	DA.	TE OF		ALPHA			BETA			DATE OF DETERMI		ACTIVITY		GROSS ACTIVE	
TAKEN	_	TION	IUI-DEED	DIMOLVED	TOTAL		DISSOLVED	TOTAL]	HATTON	ALPHA	RETA	FLIEFENDED	PIRMOLVED	TOTAL
MO DAY YEAR	BOSTH	DAY	p.p.c/1	##-e/1	##•∕1	##c/I	## - /1	P.FLe/1	<u> </u>	MO DAY	µ.e/ ₉	ARA/W	AAA/I	AF4/I	AAA/I
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RADIOACTIVITY DETERMINATIONS

STATE

LOUISIANA

HAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

BUS BASIN

LOWER MISSISSIPPI-NATCHEZ TO GULF

STATION LOCATION MISSISSIPPI RIVER AT

NEW ORLEANS, LOUISIANA

	,				ZADI	DACTIVITY IN V	YATER				BADIOA	CLIAILA IN MY	CON (ATOM		HONCILLIA IN A	YATTA
DATE		DAT	C 07		ALPHA		1	BETA			DATE OF	R BOSS	CTIVITY		GROSS ACTIVIT	~
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STATE

LOUISIANA

HAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSISSIPPI-MATCHEZ TO GULF

STATION LOCATION MISSISSIPPI RIVER AT

NEW ORLEANS, LOUISIANA

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RADIOACTIVITY DETERMINATIONS

STATE

MISSISSIPPI

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER MISSISSIPPI-YAZOO RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

VICKSBURG, MISSISSIPPI

DATE					RAD	DACTIVITY IN Y	VATER			RADI	OACTI	TYTTY IN FLAN	KTOH (à y)	PAD	HOACTIVITY IN Y	ATEL
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WAIDS QUALITY BASIC HATA

STATE

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MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSISSIPPI-YAZOO RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

VICKSBURG, MISSISSIPPI

DATI	-					EADE	OACTIVITY IN V	ESTAN			ī	IADIGA	CTIVITY IN FLA	OCTON (dry)	P.A	NO ACTIVITY IN	VATER
DAII PARAE		ŀ	DAT	T OF		ALPHA			BETA		1			LET VITY		GROSS ACTIVI	
TARE			DAT DETI	DAM!	AU APTINDAD	DIMOLVED	TOTAL	en managements	DISSOLVED	TOTAL	1	DATE OF DETERMI NATION	ALPHA	BETA	FUEL ENDED	DIRBOLVED	TOTAL
MO DAY	r Y	TAB			##c/1	APC/I	ppe/I	ppe/l	AAC/I	ppe/I]	MO DAY	AFE/0	APC/	AA-c/1	pp c/1	##c/1
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RADIOACTIVITY DETERMINATIONS

STATE

ARKANSAS

MAJOR BABIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER MISSISSIPPI-CAIRO TO HELENA

STATION LOCATION MISSISSIPPI RIVER AT

WEST MEMPHIS. ARKANSAS

PAT	,	-			EAD	OACTIVITY IN Y	VATER				EADIOA	CTIVITY IN FLA	HIXTON (dry)	IM.	MOACTIVITY IN	WATER
SAMP		BAT	E OF	1	ALPHA		1	PETA		1 1	DATE OF	8,000	ACTIVITY		DROSS ACTIVI	
TAKE	н	PATT		SUSPENDED	DISSOLVED	TOTAL	SUSTINUED	DIMOLVED	TOTAL	1	NATION	ALPHA	BETA	#UEPENDED	DISTOLVED	TOTAL
MO DAY	YEAR	прити	DAY	ppe I	pparl.	A.Pec/I	A-1	A# √1	Apc/I		MO DAY	AFE/g	AFC/U	ppc/l	ppe1	##c I
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1 26		2	10	-	-	-	108	31	139	1 1	1					
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STATE

ARKANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSISSIPPI-CAIRO TO HELENA

STATION LOCATION MISSISSIPPI RIVER AT

WEST MEMPHIS, ARKANSAS

			EAD	KOACTIVITY IN V	YATER			Г	PADICIA	CTIVITY IN FLA	VICTORY (4-A	-	DIOACITYITY IN Y	W4.7700
DATE	DATE OF		ALFHA		1	BETA			DATE OF		ACTIVITY		BROSS ACTIVI	
TAKEN	DATE OF DETERMI NATION	AU PRONDED	DIMOLVED	TOTAL	#USPIDNOED	DIMMOLVED	TOTAL	i	DETERMI -	ALPHA	BETA	SUSPENDED		TOTAL
MO DAY TELE	HOETH DAY	ppe/1	μμ _α /1	AF-c/l	AFe/I	A#e/I	##4/I		MO DAY	Afc/g	APE/g	##e/I	##«/I	A#4/1
7 6 59 7 13 59 7 20 59 7 27 59 8 3 59 8 10 59 8 17 59 8 24 59 9 8 59 9 14 59 9 21 59 9 28 59	7 15 7 29 7 30 8 10 8 14 8 27 9 10 9 17 9 22 9 28 10 8	15 - 6 0	0 0 0 0 0	15	12 21 28 0 11 121 24 6 2 11 12 0	22 0 6 12 84 3 18 16 13 10 13	34 21 28 6 23 85 24 42 22 15 24 22 13		MG DAY	MJ.	AA-/g	Apel	AA-C/I	APA-1

STATE

MISSOURI

MAJOR BABIN

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS SUB BASIN

MISSISSIPPI-CAPE GIRARDEAU AREA

STATION LOCATION MISSISSIPPI RIVER AT

CAPE GIRARDEAU, MISSOURI

DATE	f				RADI	CACTIVITY IN Y	FATER		ì	BADMOA		HITON (Ay)	LAI BAI	HOACTIVITY IN W	ATEL
LAMPI		DATE	OF		ALPHA			BETA		DATE OF	SACKS /	CTIVITY		SHOW ACTIVIT	Y
TATEN	"	NATH		EUSPINDID.	DISSOLVED	TOTAL	OU SPENDED.	DISSOLVED	TOTAL	DETERMI NATION	ALPHA	BETA	EUEPHNOED	DISSOLVED	TOTAL
O DAY TEAL	# DI	NTH	DAT	AAC I	AME I	ppc I	ppe/1	pp4/1	pape I	MO DAY	APC/g	ppe/g	ppc/l	AAc/I	AAc I
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0 6 58			16	-	-	_	68	52	120					l ł	
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1 17 58		. 2	1	-	-	-	116	35	151						
1 24 58	1	. 2	10	0	2	2	59	35	94						
2 1 58	1	. 2	15	0	0	0	13	3	16						
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2 15 5B	1	1	9		-	-	4	102	106						
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2 16 59		3	6	11	0	11	248	62	310						
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3 2 59			12	_	_	_	99	61	160						
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4 27 59			29	-	-	-	200	21	221						
5 4 59			13	-	-	-	82	42	124						
5 11 59			21	-	-		72	38	110	1					
5 18 59			26	В	2	10	92	0	92						
5 25 59		6	5 \	-	-	- 1	695	799	1494	1 1		i i	Ĭ	l i	
6 1 59			15 ¦	-	-	-)	6.5	32	97						
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MISSOUR I

MAJOR BASIN

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MISSISSIPPI-CAPE GIRARDEAU AREA

STATION LOCATION MISSISSIPPI RIVER AT

CAPE GIRARDEAU, MISSOURI

	Ι			EAD	DACTIVITY IN V	YATEN				IADIO.	CTIVITY IN FLA	OCTOH (Mrv)		₽ AI	DOACTIVITY IN Y	YATE
	DA:	nt of		ALPHA			BETA		1 1			CTIVITY	1		BROSS ACTIVIT	
TAICEN	HA	TION		DIRECTOR	TOTAL		DISTROLLVICO	TOTAL	1 1	NATION	ALPHA	BETA	1		DIMOLVED	TOTAL
HO DAY YEAR	II DJITU	DAY	ppa/l	##e/1	≠≠≈/ 1	AA4/I	ppe/l	A#c/I		MO DAY	A44/g	##c/g		AA-/I	дде/1	A #€/1
DATE MANUAL TANNER NO DAY TEAM 7 6 59 7 13 59 7 27 59 8 3 59 8 10 59 8 10 59 8 24 59 8 31 59 9 8 59 9 14 59		15 28 10 13 18 26 1 10 21 22		ALPHA DISSIDLVED	TOTAL	#USPIDIDED	DIPROLYTO		1 1	DATE OF DETERMI NATION	ALPHA	ETIVITY BLETA		#UPPHOED	DIMOLVED	TOTAL

STATE

ILLINOIS

NIBAB ROLAM

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MISSISSIPPI RIVER-ST. LOUIS AREA

STATION LOCATION MISSISSIPPI RIVER AT

EAST ST. LOUIS, ILLINOIS

DATE:					BAD+	OVCULALLY BH A	VATER		T	RADHOAG	TIVITY IN PLAN	KTON (stry)	EAD	HOYCLIALLA IN A	MATER
EAM		DAT	I of		ALPHA			BETA		DATE OF	BROSS A	CTIVITY		GROSS ACTIVIT	Y
TAKE	H	HA	TON	Man Dioto	DIRECTAL	TOTAL	BUILDER	DISSOLVED	TOTAL	HATION	ALPHA	BETA	HUMPENDED	DISSOLATO	TOTAL
MO DAY	7844	FORTE	DAY	Ape/l	##d/I	##c/l	##c/l	ppe/i	A#E/I	MO DAY	AF4/g	ARC/ (ppc/l	AFe/I	APUI
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STATE

ILLINOIS

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

MAJOR BASIN SUB BASIN

MISSISSIPPI RIVER-ST. LOUIS AREA

STATION LOCATION MISSISSIPPI RIVER AT

EAST ST. LOUIS, ILLINOIS

				840	DACTIVITY IN V	VATE			г—	Bine:	CTMTV 81 2	serred () A		W 1 COR CON T T 1 1	44.TT
TABEN NATION SUSPENDED DISSOLVED TOTAL SUSPENDED DISSOLVED TOTAL NATION N		2477.75	Τ		ALL CONTRACTOR		BOTA		ł						
NO DAY TEA BORTS DAY APACI		DETERMI	BUSPENDED		TOTAL	EUSPENDED		TOTAL	1	DETERMI			MINE PHONO		
7 6 59 7 14 103 0 103 7 12 7 14 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									1						
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MAJOR BASIN

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BABIN

MISSISSIPPI-DES MOINES-SKUNK RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

BURLINGTON, IOWA

DATE	Ŧ				RADI	CACTIVITY IN V	/ATER			BADIO	ACTIVITY IN PLA	HETON (47)	EAT.	HOACTIVITY IN W	ATER
TANKE.	ı	DATI			ALPHA			BETA		DATE OF	GROSS .	LETIVITY		GROSS ACTIVIT	٧
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	59	3	18	1	0	1	102	188	290						
	59	3	25	-	-	-	191	112	303						
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STATE

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MAJOR BASIN

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MISSISSIPPI-WAPSIPINICON & TRIBA

STATION LOCATION MISSISSIPPI RIVER AT

DUBUQUE. IOWA

						LADR	DACTIVITY DI Y				PADEDA	CIMITY IN FLAN	BCTON (Arr)	PAD	HOACTIVITY IN W	ATTR
	ATI AMI	t	DAT	E OF		ALPHA			BLETA		DATE OF		CHALLA		EROSE ACTIVITY	
			OLT T	TON	SUSPENDED	DI SOLVED	TOTAL	eu-posto	DIMOLVED	TOTAL	HATTON	ALPHA	BETA	FUT DODD	DIRECLYED	TOTAL
MO D/	AY T	TEAB	HUMIN	DAY	##c/l	AAe/I	##e/1	A#c/I	A#c/I	A#4/1	MD DAY	pp=/g	AAc/g	AAc/1	###/I	A#4/1
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3 10		59	3	26	0	0	D	25	116	141						
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4 13	3 !	59	4	28	_	-	_	23	7	30						
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5 18	8 9	59	5	29	-	-	_	23	850	873						
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6	1	59	6	15	-	-	-	8	14	22						
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6 1		59	6	30	-	-	-	11	25	36						
7 20		59	7	31	-	-	-	0	11	11						
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RADIOACTIVITY DETERMINATIONS

STATE

MINNESOTA

MAJOR BASIN

UPPER MISSISSIPPI RIVER

SUP BASIN

UPPER PORTION UPPER MISSISSIPPI

STATION LOCATION MISSISSIPPI RIVER LOCK DAM #3 BELOW

MINNEAPOLIS: MINNESOTA

	ВΑП					EAD	TACTIVITY IN Y	WATER			BADIOA	CTIVITY IN PLA	HKTON (Hy)	RAI	HOACTIVITY IN W	/ATER
	, in		DAT			ALPHA			BETA		DATE OF DETERMI	@ROBE	ACTIVITY		GROSS ACTIVIT	7
τ	ALC:	4		10H	BURFENDED	DISSOLVED	TOTAL	SUBSTINUED	DIESPOLVED	TOTAL	NATION	ALPHA	BETA		DIPROLVED	TOTAL
•	DAY	TEAR	NONTE	DAT	ppc/1	рис/1	Ape/I	##e/I	AAC/I	ppe/l	MO DAY	AA-V	APRIL 1	AAc/I	A# e/l	AAc1
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		58	10	23		_ [_	5	7	13						
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6	29	59	7	14	-	-	-	1	18	19						
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			-						• • •							

STATE

MINNESOTA

MAJOR BASIN

UPPER MISSISSIPPI RIVER

RADIOACTIVITY DETERMINATIONS

BUB BASIN

UPPER PORTION UPPER MISSISSIPPI

STATION LOCATION

MISSISSIPPI RIVER LOCK DAM #3 BELOW

MINNEAPOLIS, MINNESOTA

DATE				EAD	DACTIVITY IN W	/ATE			П	EADIOA	CTIVITY IN PLAN	ACTON (day)		RADIOACTIVITY IN	WATEL
EAMPLE	ВА	TE OF		ALITIA			PETA		1 F		WHOMA /			BROWN ACTIV	TΥ
TAILEN	쨊	TE OF TRAIL TION		DIMOLVED	TOTAL	SUSPENDED	DIMMOLVED	TOTAL	1	DATE OF DETIDING NATION	ALPHA	BETA		ED DIRECTAL	TOTAL
MO DAY YEAR			68-4/ 1	AFe/I	A#=/1	## a/ 1	F\$46/1	Ape/I	1	MO DAY	F#=/0	A4~/ g	##=/T	pp=/1	APe/?
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STATE

MISSOURI

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BARIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M36 AT

ST. LOUIS MISSOURI

	DATE					RADIO	ACTIVITY IN	WATER			RADIO	ACTIVITY IN PL	NUCTON (alry)	RAL	HI YTTYTTAGE	VATER
	ANN		DAT	107		ALPHA		1	BETA		DATE OF	GROSS	ACTIVITY		PROBE ACTIVIT	Y
	AL		DETT	CHAN CHOM	SUMPENDED	DISSOLVED	TOTAL	SILE ENDED	DISSOLVED	TOTAL	DETERM! NATION	ALPHA	BETA	BU EMENDED	DISTRIBUTATED	TOTA
0	DAY	TEAD	ROBTE	DAY	pac i	AFE/I	P#4/1	ppc/1	ppe/l	ppc l	MO DA	rec/g	PPC/S	AA4/I	AF4/I	ppe,
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-	16	59	3	27		3	11	97	187	284						
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STATE

MISSOURI

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BABIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M36 AT

ST. LOUIS, MISSOURI

DATE	T			EAD	OACTIVITY IN Y	VATER				BADEDA	CTIVITY IN PLA	HITTON LIEN	PAT	MOACTIVITY BY	VATER
SAMPLE	DAT	ı o		ALPHA		T —	BETA		i	DATE OF		VETIVITY		GROSS ACTIVIT	
TAKEN	DATE DETE NAT	KONI-		DIRECLYED	TOTAL	BUSTENDED	DIMOLVED	TOTAL	1	DETERM!			RUBPINDED		
MO DAY TEAM	BOSTR	DAY	####/I	AAc/I	## ≈ /1	APe/I	AA-c/1	A.R.c/1	i	MO DAY					
TARIN MO DAY TEAM 7 6 59 7 13 59 7 27 59 8 10 59 8 10 59 8 17 59 8 31 59 9 14 59 9 12 59 9 28 59	8 7 8 8 8 8 9 9 9 10 10	7 29 4 113 188 277 2 11 6 6									ALPHA PAN'S	APPLIQ	PURPONDED AMA/I	Ale/I	TOTAL PARTI

STATE

KANSAS

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER AT

KANSAS CITY. KANSAS

DATE LAMPLE TAKEN	ı														
		DAT	E OF		ALPHA		T	BETA		DATE OF	BROKE A	С ПУПҮ		GROSS ACTIVIT	Υ
	1	PETE	HON	SUSPENDED	DUMOLVED	TOTAL	SVSPIDIDED	DIMOLVED	TOTAL	DETERMI HATION	ALPHA	BETA	SUMPENDED	DISSOLVED	TOTA
DAY	TEAT	ROSTH	DAY	##c/l	Ape/I	p.p.e/l	AAC/I	ppe/l	pac/l	MO DAY	₩√Į	A Pec/ g	AFc/I	AAc/l	ppc
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							138	36	174						
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-	59	4	13	-	-	-	444	127	571						
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	59	5	1	-	-	-	201	62	263			ļ .			
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18 :	59	5	29	0	0	0	92	44	136						
25 5	59	6	5	-	-	-	169	16	185						
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STATE

KANSA5

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION

MISSOURI RIVER AT

KANSAS CITY, KANSAS

DATE				EADK	ACTIVITY DI V	YATE				RADIOAC	JIVITY IN PLAN	DCTON (dry)		RAD	CACTIVITY IN W	ATEL
EARTH	МП	OF.		ALPHA			BETA		Ì	DATE OF DETERMI NATION	Enchs /	CTIVITY			SROSS ACTIVIT	Y
TAKEN	DATE DETER HATH			DIMOLVED	TOTAL	NUMPENDED	DIEMOLVED	TOTAL	1	NATION	ALPHA	BETA		EVERTING ED	DUMBOLVED	TOTAL
DAY YEAR	ношти	DAY	pac/1	## e/ 1	##4/ 1	###/T	<u> </u>	#•∕1		MO DAY	A94/g	A#-/ 9		AFEA/1	AA-c/I	ppe/
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10 59		14	-	-	-	47	10	57								
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STATE

MISSOURI

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOURI BELOW MIDBRARA RIVER

STATION LOCATION MISSOURI RIVER AT

ST. JOSEPH. MISSOURI

DAT	,	- 1				EAD	DACTIVITY IN Y	VATER			RADIOAC	TIVITY IN PLAN	EKTON (dry)	EAT.	HOYCLIALLA BY A	YATER
24,44		ŀ	DATI	OF		ALPHA			BETA		DATE OF	GROWN A	CTIVITY		GROSS ACTIVIT	Υ
TAKE		- 1	PLAT		EVENDED.	DEBEOLVED	TOTAL	SUSPENDED	DISSOLVED	TOTAL	NATION	ALPHA	DETA		DISSOLVED	TOTAL
40 DAY	7 71	ш	HOSTM	DAY	ppe/1	ppe/1	ppe/I	A\$4/1	##e/l	ppe I	MO DAY	###/ B	APC/	ppc I	Apre/1	APC I
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1 18			12	2	-	-	-	32	38	70						
1 24			12	11	2	2	4	21	34	55						
2 1	-		12	15	1	5	6	5	43	48						
2 8			12	24	_	-	-	<u> </u>	22	26						
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3 16	5	9	3	26	0	0	0	387	92	459						
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4 20	5	9	4	30	-	-	-	498	60	558						
4 27	5	9	5	7	_	_ '	-	76	71	147			1			
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STATE

MISSOURI

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOURI BELOW NIOBRARA RIVER

STATION LOCATION MISSOURI RIVER AT

5T. JOSEPH. MISSOURI

DATE	Т				EAD	OACTIVITY IN Y	VATEL			EADROAG	TIVITY IN PLAN	ICTOH (day)	EAL	HOACTIVITY IN Y	ATE
TANKE	۲	DAT	C		ALPHIA			BETA			CROSS A			SHOWS ACTIVITY	
HELLT				#UMPROVID	DIMOLVED	TOTAL		DISSOLVED	TOTAL	NATION .	ALPHA	BETA	SUSPENDED	DISSOLVED	TOTAL
O DAY YEL	1	E DATE	DAY	A#4/I	###/I	##=/1	##c/I	P#e/l	ppa/l	MO DAY	AA-/g	/# ~ / g	#P=/1	44 €/ 1	##c/1
		HAT	HON .		PIMPOLVED			DIMOLVED		DATE OF DISTRIBUTION OF DISTRIBUTION OF DAY	ALPHA	BETA		DISSOLVED	TOTAL

STATE

NEBRASKA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION

MISSOURI RIVER AT

	-			PADE	DACTIVITY IN V	YATER				EADIOAG	JIVITY IN PLAY	RETON (ATy)	₽.A.I	HOACTIVITY IN W	ATE
DATI	-	ATE C#	Г	ALPHA			BETA			DATE OF	SROWS /	СПУП		BROSS ACTIVIT	Y
TAUTH	9	ATION	WE DOO	DISSOLVED	TOTAL	CULT ENDED	DIRECTAED	TOTAL		HATTON	ALPHA	DETA		DISPOLVED	TOTAL
HO DAY YELL	_		###/I	pp=/1	AA-c/1	AF6/I	ppe/l	APe/I		MO DAY	ppe/g	APe/g	Ape/I	AAC/I	AA-d/1
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STATE

NEBRASKA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

BUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER AT

OMAHA: NEBRASKA

DATE			EADIC	WILLIAM A	VATER			EADROAG	JIVITY IN FLAN	(ICTOH (day)	IAD	CACTIVITY IN W	ATE
SAMPLE	DATE OF		ALIHIA			DETA		DATE OF		CTIVITY		BROOF ACTIVITY	Υ
TAKEN	DATE OF DETERMI NATION	EU EP ENDED	DISSOLVED	TOTAL	SUSPEDED	DIESEDLVED	TOTAL	NATION	ALPHA	BETA	PLIST DIDED	DISTRIBUTION	TOTAL
DAY TELE	BOSTN DAY	FF6/1	##4/1	AA-VI	pp-0/1	AF=/I	p#=/1	MO DAY	APA/g	Ape/g	##c/1	A# √1	##L/I
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STATE

SOUTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOUR! RIVER

STATION LOCATION MISSOURI RIVER AT

YANKTON, SOUTH DAKOTA

DATE				BADW	CACTIVITY IN Y	MATER				EADIOAC		HETCH (ATY)		PHOACTIVITY IN W	ATE
SAMPLE	DATEO	· T		ALPHA			BETA		[DATE OF	Allows .	VETIVITY		CROSS ACTIVITY	7
TAITE	DATTERM	#U###D	DED D	HAMDLVED	TOTAL	SUSPENDED	DISSOLVED	TOTAL	1	NATION -	ALPHA	BETA		DIRECTAL	TOTAL
O DAY YEAR		Y #F4		AAc/I	ppe/1	pp _e /1	المحم	ape/1		HO DAT	44/1	PA-/	##e∕1	Apre/1	##4/I
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STATE

SOUTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER AT

YANKTON, SOUTH DAKOTA

DATE					OVCULALLY BY A	7.0104			I KAUPLAN	TIVITY IN PLAY	ECTON (alty)	1 1	HOACTIVITY IN W	AID
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STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

EUS BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER AT

BISMARCK, NORTH DAKOTA

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STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER AT

BISMARCK . MORTH DAKOTA

DATE					EAD	DACTIVITY IN Y	VATE			BADHO	ACTIVITY IN PLA	HIGTON (May)	EAL	HOACTIVITY IN V	VATE:
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STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER AT

WILLISTON, NORTH DAKOTA

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STATE

ILLINOIS

MAJOR BASIN

OHIO RIVER

RADIOACTIVITY DETERMINATIONS

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

CAIRO, ILLIMOIS

DATE	i.				BADIC	ACTIVITY IN V	WATER			RADIOAC	TIVITY IN PLAN	BOTON (Hry)	EAD.	KOACTIVITY IN W	ATE
SAMPLE		DATE	* 1		ALPHA			■ ETA		DATE OF	Mon A	CTIVITY	_	SROMS ACTIVIT	Ψ
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F7 TAIR MARCACITYLY IN FLANESON HAN BANDACINOT IN WATER ALFELA **EETA** ATT MICHAEL MICHAELY AUTOTTY TOTAL DISTRICT VED DISTRIBUTION TOTAL ALHA TOTAL **EXTA** HE MY TEM SHITE DAY A-4-7 -/--/1 ppe-1 #**/T ED DAY *** _ **~~**^1 /ee/ " 10 6 54 10 14 58 10 20 14 10 27 58 11 3 14 11 10 50 11 17 14 IJ 11 24 34 Z 1 34 12 9 98 12 15 O 1 12 57 _ 1 19 59 1 27 39 2 2 37 2 16 59 2 26 39 1 2 39 1 10 3 16 59 1) 1 30 59 4 1) 5) 4 14 39 _ 4 29 ,, B 10 59) 1 17

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Duluth, Munn.	0.7	0.1	0.2
Gary, Ind.	0.7	1.0	0.4
	0.5	0.4	0.6
Detroit, Mich.	1.1	1.3	0.B
Buffalo, N. Y	1,1	1.5	0.5
No. Atlantic Constal Rivers**			
Hagerstown, Md	1,4	1.3	0.7
Great Falls, Md.	2.4	1.0	0.8
Easton, Pa.	-	2.0	_
Philadelphia, Pa.	0.B	1.1	0.6
Poughkeepsie, N. Y	4.5	1.1	1.0
Lowell, Mass	1,6	2.1	1.2
Northfield (Amhurst) Conn.	-	-	1.9
Mornateta (Ammarst) Commissionissionissionissionis	_	_	117
Savannah River			
No. Augusta, S. C.	0.6	2.8	0.3
Savannah, Ga.	1 .4	1.9	0.7
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Tennessee River			
Chattanooga, Tenn.	4.7	4.8	3.8
Rio Grande River			
El Paso, Texas	0.7	1.1	0.3
Laredo, Texas	0.3	1.1	0.2
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Colorado River			

Great Lakes

Coolidge, Kans	2.4	1.7	1.4
Ponca City, Okla	1.6	2 .4	0.5
Pendleton Ferry, Ark	_	2.2	0.3
Fort Smith, Ark	-	-	2.1
Snake River			
Weiser, Idaho	0.4	0.4	-
Wawawai, Washington	0.5	0.9	0.4
Columbia River			
Wenatchee, Washington	0.6	0.B	0.5
Pasco, Washington	1.4	1.2	1.0
Bonneville Darn, Wash,-Ore	0.9	1.1	0.5
Beaver Army Term., Ore	0.7	1.2	0.5
Red River			_
Denison, Texas	2.0	Z.3	1.0
Index, Ark	-	2.5	0.6
Alexandria, La	0,3	2.2	0.4
Ohio River			
E. Liverpool, Ohio	0.9	2.1	1.2
Huntington, W. Va	0.8	1.1	1.0
Cincinnati, Ohio	0.6	0.9	0.9
Evansville, Ind.	1.8	1.6	2.0

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Yankton, S. D.	0.5	2.1	1.
Omaha, Nab	0.7	1.3	0.0
St. Joseph, Mo.	0.8	1.7	0_:
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St. Louis, Mo	0.7	0.0	U.
dississippi River			
Red Wing, Minn	-	1.6	0.
Dubuque, In.	1.1	1.5	1.
Burlington, Is.	1.1	2.1	1.
E. St. Louis, Il.	1.4	3 ,4	1.
Cape Girardeau, Mo	1.2	1.6	1
W. Memphis, Ark.	0.9	2.1	1.
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Vicksburg, Miss.	1.2	0_8	1.
New Orleans, La.	1,4	0,0	1.
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WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

NEBRASKA

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M642 AT

OMAHA, NEBRASKA

PLANKTON POPULATION	
NUMBER PER 100 MILLILITERS, EXCEPT ALGAE	2

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WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

SOUTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

SUB BABIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER MB41 AT

YANKTON, SOUTH DAKOTA

PLANKTON POPULATION	
NUMBER PER 100 MILLIFERS, RICEPT ALGAR	

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WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

BUE BASIN

MISSOURI-SOURIS RIVERS

PLANKTON POPULATION
NUMBER PER 100 MILLITERS, EXCEPT ALGAE

STATION LOCATION MISSOURI RIVER M1377.4 AT

BISMARCK, NORTH DAKOTA

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WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

SUB BABIN

MISSOURI-SOURIS RIVERS

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATION LOCATION MISSOURI RIVER AT

WILLISTON, NORTH DAKOTA

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	MPI			BLUE	REDEN	ORI	TEN .	PLAGE	LLATES	DIAT	омв	E Î	Į,		,5	ERB	rac Ex	a a	ANIKAL	ANIGA
MONTH	٥٨٧	YEAR	TOTAL ALGAE	COCC010	FILA MENT OUB	محصاله	PILA. MENT OUE	OTHERS.	RADWN	сентвіс	PENNATE	FLACELLATES (Auptonomi)	CILIATE	CYSTE	OTHERB	ROTIFERB	CRUST	мовив	ENBOS TANINA NUMAL	DOMINANT ORGANISME (Se lement)
10 11 12 3 4 5 6 7 8 9	10	7 59 4 59 2 59 6 59	1300 390 460 270 420 1100 1760 2740 510 7330	50 200	70 50 30 50 310 110	630		30 90 140 160 350	30	1720 1300 70 330 70 180 250 2680 2650	1060 250 110 190 350 890 1340 2530 160	100 10 20	100	100	10	100				34775 7- 7- 97- -4-43 773 477- -4-73

PHO ESLS S

WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

ILLINOIS

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

PLANKTON POPULATION
NUMBER PER 100 MILLITERS, EXCEPT ALGAE

STATION LOCATION OHIO RIVER AT

CAIRO, ILLINOIS

DAT	TE C	f				ALGA	E Oterlar	 L)					PROT	OZOA			T .	T^{-}		1.2
EAI		T		DLUE	OREEN	g _R i	CEN		LLATES	DIAT	DMS		ß		楚	3	Ž	99	N S	381
МОМТН	DAY	YEAR	TOTAL ALGAE	ထ ထေးစ	FILA MENT OUR	соссана	FILA MENT OUR	GREEN	BROWN	СЕНТВІО	PENNATE	PLAGELLATES	CILIATEB	<u>ال</u>	OTHERS	ROTIF	Сяивт	WORK	OTHER AMIKAL FORKS	DOMIN
9 4 4 5 5 6 6 7 7 8 8	24 29 26 20 4 18 1 15 6 20 4 17 I	588 559 559 559 559 559 559 559 559 559	6750 6790 5100 3400 370 2990 1770 3130 1800 1760 3410 850 350 410 610 120	1510 120 70 30 30 50 140 180 140 50 90 230 50	390 70 20 140 90 320 70 70 140	1060 600 150 120 30 30 190 180 720 200 30	20 70	330 370 130 130 50 70 50 50 50	20 30 90 30 30 70	3330 4700 4550 2370 200 1430 2550 1020 1250 1830 480 220 160 170	290 840 230 670 1130 480 260 530 50 50		200 200 100 100 10 220 10 10	100	10 10	200		10		-4334 -4-77 -4-77 -4-73 -4-74 -4-77 -4-77 -4-77 -4-7 -4-

FIGS 4.848 B

WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

INDIANA

MAJOR BASIN

OHIO RIVER

BUD BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

PLANKTON POPULATION
NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATION LOCATION OHIO RIVER AT

EVANSVILLE, INDIANA

	TEL	OF					ALGA	E (thesis)	- -L)				_	PROT	OZOA						u o
- BA	MIP	7_E			BLUE	O PLIKEN	GRI	LIEN		LLATES	DIAT	омв	ATES	- 13	-	8	ing.	ACE.A		TANIMAT 13	
MONTH	DAY		YEAR	TOTAL ALGAE	COCCO 10	FILA- MENT OUR	coamo	FILA MENT DUE	GREEN	BROWN	CENTRIC	PENNATE	PLABELLATES	CILIATER	CYETT	OTHERB	ROTIFERG	CRUBTACEA	WORMS	OTHER ANIMAL Forms	DOMINANT ORGANISMS
2 3 3 4	3 2 1	3 B 2 2 2 0 6 9	558899999999 55555555555555555555555555	9130 6210 8060 780 920 1320 820 840 1830 9250 3210	450 30 120 50 1240	50 1840	2680 1980 20 50 120 50 30 2680	1 63 0		20 30	2270 4800 310 210 120 230 200 1410 1310	410 840 410 530 1050 120 490 340 480	300 100 100	300	200	200 100 10	100	10			-4977 54327 -4-7- -5-7- -4-7- -4-7- 14327

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

PHE 26AF E

STATE

OHIO

MAJOR BASIN

OHIO RIVER

BUR BASIN

OHIO RIVER-MAIN STEM 5 MINOR TRIB.

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATION LOCATION OHIO RIVER M510 AT

CINCINNATI, OHIO

DA	TE C	OF				ALGA	E Of-L-	<u> </u>					PROT	OZOA			· ·			8 -
	MPL	_		BLUE	GREEN	GAI	LIEN		LLATES	DIAT	OMS	1	E38		9	82	À CEA	l va	S	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
MONTH	DAY	YEAR	TOTAL	соссою	FILA MENT OUR	соссото	FILA- MENT DUS	O.FEEN	BROWN	CENTRIC	PENNATE	PLACELATES	CILIATEB	CYBTB	OTHERB	ROTIFERS	CRUST	WORKS	OTHER AMINAL FORMS	DOMINANT ORGANIBMB
10 11 12 12 3 4 4 5 5 6 6 7 7 7 7 8 8 9 9	10 77 44 11 155 6 20 19 20 5 19	59999999999999999999999999999999999999	9860 11870 2420 820 750 530 890 1100 3520 3040 10610 23430 7610 5570 3220 1480 30010	460	50 30 50 180 50 160 2810 180 350 13590		290 20	780 270 50 30 70 70 70 930 640 310 540 30 30	70 50 70 50	5840 6700 1130 330 200 1200 850 6550 18970 16280 800 2080 190	780 2170 980 430 410 370 570 1590 1870 330 610 240 350	200 400 100 4400 6600 20 70 10 6600	13200	100 100 100 220 10	20 100 11000 10 1000 4400	10 20 10	10 20 10 10 10 20 10		200	-4-37 34-77 -4777 -4

PHS 3848 8

WATER QUALITY BASIC DATA - MONTHLY EEPORT

STATE

WEST VIRGINIA

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

PLANKTON POPULATION
NUMBER PER 100 MILLILITERS, EXCEPT ALGAR

STATION LOCATION OHIO RIVER AT

HUNTINGTON, WEST VIRGINIA

	TE)F				ALGA	E (27	L)				Γ	PROTO	DZOA				 -		1 2
	MPL			BLUE	BRIEDEN	GRI	DICN		LLATES	DIAT		ATES			NO.	8	ACEA		MIKKE	5 5
HTNOM	DAY	YEAR	TOTAL	жен	FILA- MENT OUS	сэссэв	FILA- MENT DUS	GREEN	BROWN	CENTRIC	PENNATE	PLAGELLATES (D'upigementer)	CILIATED	CYBT	OTHERS	ROTIFERB	CRUST	WORNE	OTHER ANIMAL FORMS	DOMINANT
8 8 9	20 4 16 20 4 15 6 20 20 4 15 6 20 6 20 6 7 16 7 17 8 17 8 17 8 17 8 17 8 17 8	56 57 57 57 57 57 57 57 57 57 57 57	9660 1340 710 810 420 2460 1310 2320 2400 8650 4580 9100 6420 10340 6410	70 30 90 3540 390 350 760 880 440 2510	30 70 110 110 4110 1690 220	320 120 90 320 1240 790 740 1450 2320 1020 6670	30 70 30	90 130 190 20 30 50 160 260 340 30 1170 180	30 50 70 370 70 70 270 160 130	610 500 4340 2620 6130 2990 1230 1610	1270 310 640 570 160 1830 680 1580 1490 1610 1110 1120 1430 440	2000 200 200 2000 10 300 20	24200 BB00 10 11000	100	20 10 10 17600 4400 4400	100 100 40 100 10	10 10 10 10	100 10	100	54-7 54-23 -4-7- -577- 577- 34-7- 34-7- 34-77- -4-77- -6-23 26-77- -8-35- -4-377

Post 2848 8

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITIES, EXCEPT ALGAE

STATE

OHIO

MAJOR BASIN

OHIO RIVER

QUE BABIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

EAST LIVERPOOL, OHIO

D.4	TE	O.F				ALGA	D9	> =L)					PROT	OZOA			~			8.7
- BA	MF	LE		BLUE	PREEN	GRI	EEN		LLATES	DIAT	OMB	ATES	82		9	ERB	IACE.	, m	A41	28 28 1
MONTH	¥	YEAR	TOTAL	coccolo	FILA MENT OUS	50CEO#0	FILA MENT OUE	CREEN	BROWN	CENTRIO	PENHATE	PLAGELLATES (Undergranded)	CILLATES	СУБТВ	OTHERS	ROTIFERB	CRUST	WORLKB	OTHER ARIBAL FURMS	DOMINANT ORGANISMS
8 6 9	2 1 1 2 1 2	4 59 9 59 1 59 5 59 6 59 6 59 6 59 6 59 1 59	1390 1010 920 270 1020 1370 1140 1550 4920 9540 3110 5570 6380 5150	70	20 50 110 20 70 90 140 70 70 70 180 140 110	450 370 40 30 70 90 940 2260 3960 1130 1370 5170 1330 4980		130 490 130 720 650 700 90 540 130 60 180		330 210 150 110 30 70 670 90 250 2210 1130 480 1760 2510 2830		100 10 30 6500 20 70 10	4400 5800 100 50	2200	10 10 10 10	100 100 100 20	10 20 10	10 10	100	-8-73 -4-3- -77- -77- -1-77- -1-3- 54375 -4-725 -4-725 -4-727

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WA IR QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATE

MARYLAND

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

GREAT FALLS, MARYLAND

DA	TE (oF	\neg				ALGA	E (N-b-	ا. <u>ا</u> ت سار					PROT	DZOA						1
	MPL	T	п.		BLUE	THEEN	ORI	EEN		LLATES	DIAT	OMS	ATES			1	12	ACEA		NIEAL 3	FUN
MONTH	DAY		Ž.	TOTAL ALGAE	COCCD10	FILA MENT OUS	SOCCOID	FILA. MENT DUS	GREEN	BROWN	CENTRIC	FEMHATE	PLAGELLATES (Cyclester)	CILIATEB	СУВТВ	ОТНЕЯВ	ROTIFERS	свиетас	WORMS	OTHER ANIBAL FORMS	DOMINANT ORGANISMS (New Persons)
2 3 4 5 6 7 8	10 2 2 4 4 6 6	B ! 2 ! 2 ! 2 ! 4 ! ! ! ! ! ! ! ! ! ! ! !	58 59 59 59 59 59 59 59 59	43160 2580 1060 790 130 1850 1210 3650 3070	610 440 1030	20 110 230 70 50 50	670 1590 2830		12080 90 20 30 50 580 90 50	30 50	1880 290 130 30 240 90 1190 1150 580	330 640 640 100 480 1520 1010 610 310 380	100 20 20	100		100		10	100		-4-33 -4-77 -4773 -4773 -4773 54373 5437-78323 -4325

PHS 8848 S

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATE

MARYLAND

MAJOR BASIN

NORTH ATLANTIC

BUB BASIN

POTOMAC RIVER

STATION LOCATION

POTOMAC RIVER AT

WILLIAMSPORT: MARYLAND

DA	TE	OF	\neg				ALGA	E (1)						PROT	OZOA			 ∢	l	4	¥.7
	MP	1	-{		BLUE	ORLEN	GRI	LEN	FLAGE	LLATES	DIAT	OMS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8		æ	2	TACEA	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LNS I
HOM	DAY		YEAR	TOTAL ALGAE	COCCOID	FILA MENT OUR	СОССЕОНО	PILA MENT DUE	WEEN	EROWN	CENTRIC	PENNATE	FLAGELLATES	CALIATI	ξ.	OTHERS	ROTIFE	CRUST	WORMB	OTHER AMIMAL FOREIS	DONIN
6 7 8	1	1 ! 8 ! 3 !	58 59 59 59 59 59	2600 1020 640 390 190 180 1920 480 1000 670	210 260 50	20 20 50 30 30 30	200 160 50 70		310 130 20 30 220 30 70	30 30	1710 130 150 70 70 30 830 440 200 50		100 10 10 10 10	10	100	100	100	10			-473 -7- -477 -477 -43-

PHS 2845 B

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

STATE

LOU[5]ANA

MAJOR BABIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

BUB BASIN

LOWER RED RIVER BELOW DENISON

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATION LOCATION RED RIVER AT

ALEXANDRIA: LOUISIANA

	TE 0	-				ALGA	E (Number)	per mil.)					PROT	DZOA						9_7
BA	MPL	E		BLUE	REEN	GRI	EEN		LLATES	DIAT	OMS	ATES	E.B.			ЕЯВ	YCEY.		VIII S	FNN Sign
MONTH	DAY	YEAR	TOTAL ALGAE	∞cc=10	FILA MENT OUE	CDCCC010	FILA MENT DUE	GREEN	BROWN	CENTRIC	PENNATE	FLAGELLATES (Duppermed)	CILIATER	СУВТВ	OTHER	ROTIFE	CRUST	WORWS	OTHER ANIBAL FORMS	DOMINANT ORGANISME CA Istraction
11	10 15 5 3 9 6 18 2 6	59 59 59 59	4760 3990 1580 6310 1780 1480 4440 1340 6850 8350 29070	110 270 30 140 810	2030 630 100 30 490 50 3750 4550 17090	1690 100 90 50 520 70 490 110 790		2940 50 90 240 30 160 50	50 140 90	520 2170 890	110 320 310 540 810 230 470	10 10 20 10	200 30 10 20	700	100	100	100	10		54-74 -4825 -4-3- -4-77 54-77 -477- -4-77 -4977 26873 26373

Prof. 1948 1 [1 17 WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

ARKAN5A5

MAJOR BABIN

SOUTHWEST LOWER MISSISSIPPI

SUB BASIN

LOWER RED RIVER BELOW DENISON

PLANKTON POPULATION

NUMBER PER 1000 MILLILITEES, EXCEPT ALGAE

STATION LOCATION RED RIVER AT

INDEX. ARKANSAS

	TEO	_				ALGA	E (Number)					Γ	PROT	DZOA			_ <			¥.7
	AMPL			BLUE	REEN	GAI	LIEN	FLAGE (Pt-	LLATES	DIAT	OMS		ä) ₂₂	B] Je	<u> </u>	AN EN	28 T
HUNOM	ρΑΥ	YEAR	TOTAL ALGAE	COCCOID	FILA MENT DUS	COCCOID	FILA. MENT OUR	SALES	BROWN	CENTRIO	PEDOLATE	년원	CILIATES	CYETS	ОТНЕЯВ	ROTHERS	CRUSTACEA	WORMS	PUTER ANIMAL	DOMINANT ORGANISA OF POTEST
	1	59	5460	2640	2730	560		270	830	560	870	20	20				10			26371

PHOE E848 E

WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

TEXA5

MAJOR BABIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

EUD BASIN

LOWER RED RIVER BELOW DENISON

STATION LOCATION RED RIVER AT

DENISON, TEXAS

PLANKTON POPULATION
NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

ALGAE (Number per ml.) PROTOZOA DATE OF BAMPLE PLAGELLATES (Usbernere) FLAGELLATES BLUE GREEN GRUEN DIATOMS OTHER AND CILIATED OTHERS WORMS HUNDI CYSTB DΑY PILA FILA TOTAL 0000010 coccoin i MENT MIDNE GREEN BROWN CIDITALC PENNATE ALGAE DUE 10 6 58 2870 500 1070 880 5637-100 320 100 11 10 58 680 40 410 100 100 130 1 58 1510 690 54-7-470 12 350 2080 5 59 40 680 1210 150 -4-3-3 59 760 30 100 280 160 50 140 100 2 59 150 50 30 70 200 7 59 610 70 70 310 460 4 59 200 50 30 120 10 1 59 340 50 70 220 10 110 50 6 59 30 30 10 3 59 1010 330 70 30 70 420 -6-7-90 10 B 59 1920 180 540 430 180 50 250 290 20 24B3-10

PHS 2848 9

WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

TEXA5

NIBAB ROLAM

WESTERN GULF

SUB BASIN

LOWER RIO GRANDE BELOW PECOS

STATION LOCATION RIO GRANDE RIVER AT

LAREDO, TEXAS

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

DATE OF	 			ALGA	E (Harris	per =L)					PROT	OZOA		<u> </u>		T	Τ	9 2
EAMPLE I		BLUE	OREEN	gR!	LEN	FLAGE (FL	LLATEN	DIAT	OMS	LATE	8	_	92	FERR	YCE		NA SERVI	FASI
MONTH DAY YEAR	TOTAL	COCCOID	FILA MENT OUS	соссоно	FILA MENT DUE	OP KICH	BROWN	CHATRIC	PENHATE	PLAGELLATES	CILLATEB	CYBTB	отнеяв	ЯСТЕ	CRUSTACEA	WORMB	OTHER AMIKAL PORKS	DOMINANT ORGANISME FOR LEADING
10 6 58 11 10 58 12 9 58 12 9 59 2 3 59 3 6 59 5 4 59 6 6 59 8 4 59 9 1 59	830 100 34510 3170 790 550 4940 3800 1260 11240	250 20 70 720	100 250 50 1000 30	490 170 470 130 320 3750		20 6780 150 120 110 230 200 50	50	310 20 26080 50 230 630 180 960	60 660	10 20		10	440	10				54333 -477- -7- -7- 54772 -4-73 -8372 -4-

PHS 3848 8

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATE

TEXAS

MAJOR BASIN

WESTERN GULF

SUB BASIN

UPPER RIO GRANDE ABOVE PECOS

STATION LOCATION RIO GRANDE RIVER AT

EL PASO, TEXAS

Figure F	DATE OF				ALGA	E (Nade)						nport.							
10 6 58 19100	BAMPLE		PLUE	REEN			FLAGE		DIAT	OME			OLUA .		.	ğ	_	MIKAL S	52
10 6 58 19100		ALGAE	CD-CCD 1D	MICKE	CDCCC01p	MENT	ФШН	BROWN	CONTRIC	PENNATE	FLAGELL	CILIATE	CYBTE	OTHER	ROTIFE		WORM	OTHER A	DOMIN
	10 6 58 4 6 59 5 4 59 6 1 59 7 7 59 8 3 59 8 31 59	4650 3040 4970 2970 7580 7570	160 270 270	30 140 50	110 250 250 250		50 30 210 130 70 70	120 90 90	590 1190 3150 2600 6120 6120	4010 1650 940 240 730 720	10	15000				J	3	.0	6-84 -4173 34773 -4777 -4-77 -4-7- -4-7- -4-7-

Plot 2442 5

WATER QUALITY BASIC DATA - MONTHLY REPORT

STATE

GEORGIA

MAJOR BASIN

SOUTHEAST

BUB BASIN

SAVANNAH RIVER

PLANKTON POPULATION NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATION LOCATION SAVANNAH RIVER AT

PORT WENTWORTH, GEORGIA

DA	TE	OF.	7				ALGA	E (Franker)	T =L)					PROT	OZOA		_	_ <	_		9.7
	Г	1.6	_		BLUE	GREEN	GRI	DEN.	FLAGE	LLATES	DIAT	OMS	11	5	_) 	18	TACEA		ANIBA	F B S
MONTH	DAY		YEAR	TOTAL	COCCOID	FILA. MENT DUB	COCCC010	FILA MENT OUS	SALESH	ENOWN	CENTRIC	PENHATE	STATE OF THE	CILIATES	CYSTB	ОТНЕЯВ	ROTIFERD	CRUST,	WORNE	OTHER ANIMAL Forms	DOMINANT ORGANIBME
10 11 12 3 4 5 6 7 8 9	1	0 8 6 9 6 1 1 6 3	58 58	1490 1860 3400 510 470 1040 3130 1620 960 1470 1780	30	200 500 210	20 30	50 20	20	20	620 1110 860 140 110 2580 800 560 190 480	470 250 250 320 270 490 330 520 140 320	100 100 20 30 30	100			20	100			-477- -47-7 -4-7-

PHIS 1848 8

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATE

SOUTH CAROLINA

MAJOR BASIN

SOUTHEAST

SUB BASIN

SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT

NORTH AUGUSTA: SOUTH CAROLINA

DATE OF BAMPLE		ALGAE (Number per al.)										PROTOZOA							1 -	
			BLUE GREEN		GREEN		FLAGELLATES (Farmer)		DIATOMS		ATES					ACEA	_	MINAL	Z Z	
MONTH	DAY	YEAR	TOTAL ALGAE	50CEDID	FILA MENT OUR	2002010	FILA MENT DUE	EA IEEN	IROWN	CENTRIC	PENNATE	FLAGELLATES	CILIATE	CYBTB	OTHER	ROTIFERS	CRUET.	WORMS	OTHER ANIMAL FORMS	DOMINANT ONDANISMS
10 11 12 1 2 3 4 5 6 7 8 9	3 1 5 2 6 4 2 6 3	5 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5	900 630 820 540 660 1470 940 980 870 910 230 1170	50 70 160 50	70	50 30	30	50 70 50 90	30 90 30	130 210 230 180 190 210 230	210 530 290 370 1100 470 70 270 70	1000 10 10 20 10	10	100	10	100		10		-7- -4-7- -5-7- -7- -3-

FIG. 1843 1

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

BUB BABIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION SNAKE RIVER AT

WAWAWAI, WASHINGTON

_	DA:	TE C) F				ALGA	E (Herby)	per mil.					PRO	FOZOA			-	T		
	_	MPL			BLUE	GREEN	GRI	DEN	FLAGE	LLATES	DIAT	OMS	¥ J	- 5		9	1 E	ACEA	LED .	Y	L N N N N N N N N N N N N N N N N N N N
H	5	DAY	YEAR	TOTAL	COCCOID	FILA MENT OUR	coccop	FILA MENT OUE	e) LIDA	BROWN	CENTRIC	PENNATE	FLACELLATES	CILLATES	СУВТВ	ОТНЕЯВ	ROTIFERS	CRUBTA	WORKS	OTHER ANIMAL FORMS	ODMINANT ORGANIBMB
1	11 12 1 2 3 4 5 6 7 8	10 5 9 2 6 4 8 10	5 5 9 5 5 9 5 5 9 5 5 9 5 9	2070 1210 1090 1260 1770 1820	5 0	50 70	4 0	30		20 50 30	270 190 210 410 690 270 260 480 90 440 590 350	1820 940 620 440 1340 1560 1590 1010 260	100 100 30 10 10 30	100 20 10		100		10			-477 -77 -477 -4-7 3477 -4-7 -4-7

PHE 1848 E

11 87

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, EXCEPT ALGAE

STATE

IDAHO

MAJOR BASIN

PACIFIC NORTHWEST

EUB BABIN

CENTRAL SNAKE RIVER

STATION LOCATION SNAKE RIVER AT

WEISER. IDAHO

	TE	OF	T -				ALGA	[(N)	- - 1			— т		PROTO	OZOA						
BA	MP	LE_	\top		BLUE	REEN	GR	EN .		LLATES	DIAT	DMS	¥ [5			88	YU V		MIKAL 19	521
MONTH	١	YEAR	TO:	TAL GAE	مامکنده	FILA MENT OUE	тоссоно	FILA MENT OUR	BREEN	BROWN	CENTRIC	PENHATE	FLAGELLATES Undergrand	CILIATES	CYBTB	ОТНЕЯ	ROTIFER	CRUST	WORK	OTHER ANIMAL FORMS	DOMINANT ORGANIBMB (** Introduction
11 12 1 2 3 4 5 6	1 1	555555555555555555555555555555555555555	8 9 9 9 1 9 1 9	3400 1280 87360 6760 22680 3270 43710 6560 2790	20 70 90 540 30	350 300 200 10 250	40 120 40 50 4370 90 30	30 9000 30	40 600 210 100 130 50 250	20 90 70 70	450 3900 3900 4260 3020 1040 1190 50	640 3250 3140 2050 4860 2080 1810 43080 5750	100 100 10 10 30 20	200 100 4400	4400	100	10 10 10	10	10		-4773 -4773 -4773 3477- 54773 -4773 -4773 -4773 -4777

THE 2043 1

WATER QUALITY BASIC DATA - MONTHLY REPORT

PLANKTON POPULATION

NUMBER PER 100 MILLILITERS, RECEPT ALGAE

STATE

TENNESSEE

MAJOR BABIN

TENNESSEE RIVER

SUB BASIN

TENNESSEE MAIN STEM & MINOR TRIB.

STATION LOCATION TENNESSEE RIVER M465.3 TVA AT

CHATTANOOGA: TENNESSEE

DA	T	OF	• 7				ALGA	E (****						PROT	OZOA	_	1		ľ	1 _	1 9 -
	AMI	1	-1		BLUE	GREEN	Q.R.			LLATES	DIAT	OMS	Ę	9		l na	8	YCEY	_	MIKAL	52
MONTH	2	1	YEAR	TOTAL ALGAE	cocco	FILA- MENT OUR	2002010	FILA MENT OUE	GALLEN	BROWN	CENTRIC	PEONATE	FLAGELATES	CILATES	כאפדו	OTHERS	ROTIFERB	CRUSTAC	WORNE	OTHER ANII PORIIS	DOMINA
11 12 1 2 3 4 5 6 7	1 1 1 1 1 1 1 1	8 5 0 7 7 4 2 5 3 8	55555555555	1210 1580 7600 2840 400 1080 1150 470 1060	160 30 50 50	70 70 70	230 130 40 90 100 130 50 200 90 230		190 370 150 390 70 90 50 30 30 30	40 20 40 50 30 50 70 50	580 860 910 2210 370 290 610 460 180 350	110 20 110 230 230 480 30 70 370	100 20 30 10	2200 10 10		10	10	100			-491 -4-3 -4-1 -43- -7 -43- -8-7 -4-7

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PHOS EAST 0 (1-97 WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Pers per Miller)

STATE

ARKANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI

MIRAE GUE

ARKANSAS RIVER-VAN BUREN TO MOUTH

STATION LOCATION ARKANSAS RIVER M44.5 AT

PENDLETON FERRY, ARKANSAS

DA.	ATT.	OF EA	WF.			9	TRACTABL						CHLOROF	ORM IDITRA	CTAB LEGS				
BEGIN	нн	NO.	,IO	9									NEUTRALE					T	
HE PAGE	PAY	1441	МОНТН	¥	MALLONS FILTERED	TOTAL	CHLORO FORM	ATCOHOT	ETHER INDOLUBLES	WATER SOLUBLES	TOTAL	ATIMETERS.	ABORATICS	COLUMN TO STATE OF THE STATE OF	<u> </u>	WEAR ACIDU	ETRONS ACIDS	ME	LO#8
7				13		245	B 1	164	2	18	31	ALIMATICS 5		COLFORING	1	11	& S	2	11

P140-2849-0 |1 97 WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER
(Poor per Miller)

STATE

OKLAHOMA

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

ARK. RIVER. KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER NEAR

PONCA CITY, OKLAHOMA

	TATE		AMPL		Γ		KTRACTABL	TS	Π				CHLOROF	ONH EXTRA	CTABLES				
	LINN		_	<u> </u>	1	-							NEUTRALO						
HO91	DAY	75.54	н тьмо	DAT	MALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER DUNOLUNES	WATER	TOTAL	AUPRATICE	ABORATICS	DETECTAL ATTENT	Lo ss	WEAK ACIDS	STRONG ACIDS	BASES	Loss
10	6			13		196 349	64 177	132 172	1 0	11 16	29 94	5 19			0 16	41	4 7	1	10 15
12	1				_	304	123	181	ا آ	9	77	25	20		6	20	4	1	12
1	5	59				338	176	162	0	11	120	34	40		10	26	5	4	10
2	2	59	2	9	5040	341	163	178	0	5	120	37	28	26	29	15	5	2	16
3	2		3		4350	263	119	144	0	5	85	23	19	31	12	6	2	1	20
4	6	59	+		4320	210	73	137	0	10	45	В	В	27	2	7	2	1	8
5 6	4		5		4980 4280	154 146	85 56	69 90	2	14 8	36 29	9	6	18 17	3 2	15 8	3	1	11

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WALER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER

STATE

KANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

ARK. RIVER. KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER AT

COOLIDGE, KANSAS

DATE	OF I	AMPLI			ID:	TRACTABL	To .											
BEGINNI			ę		-								ORM DOTRA	CTABLES				
РА	YEAR	НОМ	DAY	GALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHICR Impolium <u>es</u>	WATER SOLUBLES	TOTAL	ALIFFACTION	AROSATICS	ORTHER ATED COMPOSIDE	LOSS	WEAE ACIDS	ACIDA ACIDA	EASES	LOST
	55 55	3 5	23 25 10	5194	161 176 514	23 42 63	138 134 451	1 1 5	5 12 16	9 13 21	3 2 2 2	2 2	ATES COMPOSIBLE	0	2 5	1 3 3	0	57 9
												1		<u>.</u>				

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WATER QUALITY BASIC DATA - MONTHLY BEFORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER

STATE

ARIZONA

MAJOR BASIN

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

YUMA, ARIZONA

DATE OF			_		l D	CTRACTABL	<u> </u>	Τ				CHLOROF	ORM EXTRA	CTABLE				
BEDINNING		-	_]		-	 	T			NEUTRALE						
PAY PAY	ž	HEADR	DAY	EALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER SMHOLUBLES	WATER SOLUBLES	TOTAL	шнипо	ABOBATICS	COLTYN EST ATTED COMPOSITION	LOME	WEAK ACIDS	STRONS ACIDS	BASES	LOSS
12 1 5 2 6 5 3 2 5 5 4 5 6 1 5 6 29 5	58 59 59 59 59	122 3 4 5 6 7 8	18 16 12	3380 3310 5960 5190 6000 5980 2703 6100 4360	260 204 91 123 99 95 286 145 135	48 40 34 38 31 20 66 54 25	212 164 57 85 68 78 220 91 110	0 0 2 2 1 0 3 2 0	9 11 10 10 8 5 11 14 6	19 13 6 10 8 21 15 9	1 1 0 1 1 1 1 1		14 10 7 8 5 6 17	2 1 1 0 1		2 2 3 3 1 4	111111111111111111111111111111111111111	12 9 8 9 7 4 19 13 5

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS MICOVARIED BY CALIFORN FILTER TRESPUBLIC

RESULTS IN MICROGRAMS PER LITER (Part per MELE)

STATE

CALIFORNIA

NIZAS SOLAM

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER ABOVE

PARKER DAM: ARIZONA-CALIFORNIA

DATE OF	- BAL	PLE			RD(TRACTABL	I.s	T				CHLOROF	ORM EXTRA	CTABLES				
BESINNING	I	DV							7			NEUTRAL					<u> </u>	
PAY DAY	ž	HOMTH	ž	RALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL.	ETHEN THEOLUBLES	WATER SOLUELES	TOTAL	ALDHEATICS	ABUBLATICS	COM POLITICAL	Lond	MEAE	STECHE ACIDS	Mag	LD#9
11 26 5 12 31 5 1 21 5 2 25 5 3 24 5 4 20 5 5 10 5 6 15 5 7 13 5 8 19 5	56 56 59 59 59 59 59 59 59 59 59 59 59 59 59	11 12 1 3 4 5	14 6 24 30 4 1 1 224 22 29 2	5150 5010 5150 6542 5010 4830 5170 5030 5650 6160 4970 5260 5160	96 274 154 115 167 143 158 185 187 174 180 150	42 127 49 30 50 32 40 64 57 45 51 41 28	54 147 105 85 123 135 103 94 128 134 123 139 122	0 1 0 3 1 0 5 2 1 3 1 1	12 29 14 8 11 8 18 18 12 12 10 7	13 35 12 7 10 10 8 13 13 14 11 10	1 7 1 0 0 1 1 1 1 1 1 1	1 1 1 1 0 1 1 1	21 9 5 8 10 10 10	111111111111111111111111111111111111111	3 15 4 2 4 6 5 4 5 3	21132312754421	111111111111111111111111111111111111111	11 32 14 10 18 9 7 14 10 12 11 5

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS INCOVERED BY CANNON FILTER TECHNICALE

RESULTS IN MICROGRAMS PER LITTER (Pers per Miller)

STATE

NEVADA

HAJOR BASIN

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER NEAR

BOULDER CITY, NEVADA

	DATE	OF I	AMPL			E2	CTRACTABL	£5					CHLOROF	ORM EXTR.	ACTABLES				
	HHID		_	NED .	1				-				NEUTRALI						
HEADN	DAY	7,5	HILMON	DAY	GALLONS FILTENED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER ETHER	WATER SOLUBLES	TOTAL	ШР ІЛПО	AROBATICS	DETRIES ATED COS PODISTO	LOWE	WEAK ACIDS	STRONG ACIDS	1AED	Lo is
10	9	58	T	23	3170	156	40	126	0	10	n	1	2	8	- 0				9
11	3	51		. 25		194	58	136	1	14	10	0	1	5	1		1	_	
12	17					214	41	173	0	12	9	0	_	1	1			2	
1	27	59	2			232	65	167	2	17	11	0	,					_	
3	5		_			173	34	139	Z	7	9	0	1		1				
4	. 7					165	47	118	1	12	10	0	0	_	٥	_		1	
5		59				195	44	151	2	10	10	0	1		1			1	
6	Z					196	48	148	3	12	11	1	1		0	,		1	
6 7	29 20					230	64	166	1	14 15	13	1 1	1	_	0			1 1	
				_		183 167	56 44	127 123	2 2	12	11	6	1 1	7				1 1	
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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Part per Miller)

STATE

OREGON

MAJOR BABIN

PACIFIC MORTHWEST

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER M552 AT

CLATSKANIE, OREGON

	DAT	E OF	EAH				EX	TRACTABL	T1					CHI DEOL	DRM EXTRA	CTABLES				
	_	IINO	Ť	EN										NEUTRALE		CIABLLE				
HUNON	DAY	Y		ном	DAY	GALLONS FILTERED	TOTAL	CHLORO- FORM	VTCOHOT	ETHER JRSOLUBLES	AVLID	TOTAL	ALIPEATICS	ABORATICS	CENTER ATIO COMPOSITION	LOSS	WEAK ACIDE	STRONG ACIDS	1ASES	Lows
11 12 1 3 4 5 6	2.	5 5 7 5 9 5 9 5 5 6 5 5 8 5	8 9 9 9 9 9 9 9	12 1 2 3 5 6 7 8	30 9 27 24 8 5 16 5 12	2890 3280 3050 4010 4620 3500 2520 2640 2350 4420	220 159 150 144 110 178 183 215 192 99	48 46 35 31 34 75 55 68 30 22	172 113 115 113 76 103 128 147 162 77	2 0 0 1 1 3 2 3 1 0	9 10 8 8 20 13 14 4	15 11 13 10 9 22 13 23 16 12	2 1 2 1 1 3 2 1 1 3 2 2	1 2 1 1 3 1 2 2	8 7 7 13 10 18	0 1 1 1 0 3 1 2 1 0 0	6 4 4 9 6 8	3 4 2 2 3 9 4 5 2 1	0 1 1 0 1 1 1 1	12 15 7 5 9 11 16 14 1

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER
(Park per letter)

STATE

OREGON

MAJOR BASIN

PACIFIC NORTHWEST

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

BONNEVILLE, OREGON

		- 1		-	TRACTAN	F0					CHI OBOF	DRM EXTRA	CTABLES				
BEGINNING	LMPLE EH			LX.	TRACTABL			r -			NEUTRALE						
DAY YEAR	нцком	λ¥	GALLORS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER IMBOLUMLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICA	DETRIENT ATED COMPOUNDS	Loss	WEAK ACIDS	STRONG ACIDS	BASES	Loss
10 6 58 11 3 58 12 1 58 12 29 58 12 24 59 2 24 59 3 30 59 4 27 59 6 1 59 7 6 59 8 3 59 9 21 59	11 12 1 2 3 4 5 6 7 8	17 15 12 9 9 13 11 15 20	8864 7005 6424 8720 7596 5180 4192 4737 3127 4092 5592 5078	52 60 69 80 82 113 118 81 120 134 79 77	16 21 20 20 21 27 24 26 33 25 22 23	36 39 49 60 61 86 94 55 87 109 57 54	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	454555679756	9 7 6 6 10 7 7 7 7 7 7	1 1 0 0 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1	7 5 4 6 7 5 5 6 5 5 5	00010010000	2 2 2 2 3 2 3 3 3 3 3	1 1 2 2 1 1 2 2 1 2	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 6 4 4 6 6 5 8 5 4 4

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

RESULTS IN MICROGRAMS PER LITER

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

SUB BASIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION COLUMBIA RIVER AT

PASCO. WASHINGTON

DATE OF SAMPLE		E	CTRACTABL	E.S.					CHLOROF	ORM EXTRA	CTABLES				
BEGINNING EN	D								NEUTRALE						
DAY YEAN	SALLONS FILTERED		CHLORG FORM	ALCOHOL	ETHER BNSOLUBLES	WATER SOLUBLES	TOTAL	ALIPSATICS	ABOBATICS	OFFICE ATIO COMPOSITOR	LOSS	WEAK ACIDS	STRONE ACIDS	BASSES	LOSS
11 10 58 11 12 15 58 1 1 12 59 2 16 59 3 3 16 59 3 4 20 59 4 5 11 59 5 6 8 59 6 7 6 59 7 8 17 59 6	25 10880 2 11550 2 11080 2 9520 29 13600	53 71 76 64 64 104 205 168 126	16 15 17 30 16 12 34 73 47 41 24 28	33 38 54 46 48 52 70 132 121 85 66 154	0 2 0 1 1 1 2 2 2 1 1 1	3 2 4 7 4 3 7 20 13 10 5 7	6 4 5 6 5 3 11 15 10 10 10 12		000000000000000000000000000000000000000	4 5 5 5 3 8 12 8 8	000000000000000000000000000000000000000	1 1 1 3 8 5 6 4	1 1 2 1 1 2 8 4 3	100000000000000000000000000000000000000	3 4 6 12 4 3 8 20 13 9 3 3
				1			<u> </u>					1		1	

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

BUB BASIN

COLUMBIA RIVER ABOVE YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

WENATCHEE, WASHINGTON

		OF I		==				TRACTABL		т				CHLOROF	ORM DYTE	CTABLID				
	LINN		7	Dil				I TONC I ABL		 				NEUTRAL						
HE	Y C	1	1	.	AY.	EALLONS FILTERED	TOTAL	CHLORO- FORM	VTCOHOT	ETHER INSOLUBLES	WATER SOLUBIES	TOTAL	тыта	ABOBATICS	ONTERN ATED COMPOUNDM	Lom	WEAK ACIDS	STRONG ACIDS	BASES	Loss
10 3 3 5 6 7 8 9	21 230 41 66 41	55 55 55 55	9	0 3 4 5 6 7 8	30 11 8 11 11 14 17 14	4933 4371 5200 4373 4620 3640 5800 6420	83 81 68 83 81 155 97 68	26 21 15 28 26 37 32 22	57 60 53 55 55 118 65 46	1 1 0 2 1 1 1 0	6 5 4 7 8 10 8 5	10 9 6 8 7 11 10 10	3 2 1 2 2 3 3 3	2 1 1 1 1 1	5 5 4 7 6 5	0 0 0 0 1 1 1 0 0	2 1	1 1 2 1 3	1 0 0 0 1 0 0 0 0	4 3 5 6 6 8 6 4

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER (Pero per litter)

STATE

PENNSYLVANIA

MAJOR BASIN

NORTH ATLANTIC

SUS BASIN

DELAWARE-SCHUYLKILL RIVERS

STATION LOCATION DELAWARE RIVER M90 AT

PHILADELPHIA, PENNSYLVANIA

	ATE	OF EA	MFLI	1		EX	TRACTABL	ES					CHLDROF	ORM EXTRA	CTABLES				
	INNI		D	_	ļ		1						NEUTRALE						
HEADN	DAY	YEAR	монтн	PA	BALLORS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TUTAL	ALIPEATICS	AND EATION	CONTREM ATED COMPOUNTS	LO	WEAR ACIDS	STRONG ACIDS	BARES	LOSS
3	30	59	4	7	49 98	41	14	27	0	3		3		4	0	1	٥	o	2
								1											

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER
(Pers per balles)

STATE

PENNSYLVANIA

MAJOR BASIN

NORTH ATLANTIC

SUB BABIN

DELAWARE-LEHIGH RIVERS

STATION LOCATION DELAWARE RIVER AT

EASTON, PENNSYLVANIA

DATE OF EA		,			TRACTABL	F.B.					CHLOROF	ORM DOTRA	CTABLES				
BEGINNING		. 0			1.00		 				NEUTRALE						
монтн рау	HENNETH	DAY	PALLONS	TOTAL	CHLORO- FORM	ALCOHOL	ETHER ENSOLUBLES	WATER BOLUBLES	TUTAL	ALIPPATTO	ABOSEATICS	CONVERTED COMPOUNDS	Lòng	WEAK ACIDS	STRONE ACIDS	BASES	Loss
10 1 58 12 1 58 1 2 59 2 1 59 2 23 59 3 30 59 5 1 59 6 1 59 8 4 59 9 1 59	12 1 2 3 4 5 6 7 8	10 12 10 11	5137 5460 6180 6082 5565 5895 6353 3212 5992	76 105 84 104 - 97 88 79 129 92 87	33 30 29 37 42 27 38 28 25 33 26	43 75 55 67 70 50 51 104 59 61	3 0 0 1 3 6 3 1 1 2 1	8 11 8 9 10 6 6 7 6	10 9 11 11 7 10 10 12 12	1 1 1 1 1 1 1 2 2 2		6 6 8	1 0 1 1 1 1 1 1 1 1 1	2 3 3 4 3 5 3 2 5 2	2 1 2 1 1 2 1	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 6 9 11 5 9 6 4 6 3

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER
(Pers per Miller)

STATE

NEW YORK

MAJOR BASIN

NORTHEAST

BUB BASIN

LAKE ERIE-NIAGARA

STATION LOCATION LAKE ERIE AT

BUFFALO, NEW YORK

DATE OF EL	AME			EX	TRACTABL	TS.					CHI CROS	ORM EXTRA	CTABLES			_	
BEGINNING		ND					 				NEUTRALE		~				
PAY YEAR	HOMTH	P.	GALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER Ensolubles	WATTER BOLLIBLES	TOTAL	АЛЕМТО	ABORATICS	CETYBLES ATED COSEPOSTING	Loss	WEAK ACIDS	ACIDS	ME	وجما
11 5 58 12 3 58 2 16 59 3 18 59 4 29 59 5 20 59 6 8 59 7 6 59 8 3 59 9 2 59		26 15	3788 5400 4561 4807 3613 5032 3638 4563	132 235 171 177 176 181 169 261 214 212 158	25 59 40 44 53 54 55 64 58 41	107 176 131 133 128 115 206 150 154 117	0 2 5 3 5 4 1 4 1 5	5 18 11 11 15 14 14 17 15 5	8 18 12 9 12 14 14 21 18 20 14	1 2 1 2	2 1 1 2 1 2 2 2 3	13 10 7 9 10 10 16 12 14	1 0 1 1 0 2 1 2 2 1	36 44 55 9 7 7 7 7 7 5	4 2 3 3 4 4 4 3	111111111111111111111111111111111111111	8 12 8 11 9 8 8 11 11 9

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Page per letter)

STATE

MICHIGAN

MAJOR BASIN

WESTERN GREAT LAKES

NIBAE GUE

ST. CLAIR-DETROIT RIVERS

STATION LOCATION DETROIT RIVER AT

DETROIT, MICHIGAN

	- 1 -	07 L					TRACTABL						CHI ORCE	ORM EXTRA	CTABLES				
_	INNI					<u>_</u>	CIRACIABO	<u> </u>	+				NEUTRALI		CIABCEO		Γ	<u> </u>	
HUNNIH	DAY	YEAR	номпн	DAY	PILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHEN DEBOLUBLES	WATER ≠OLUBLES	TOTAL	ALIFFATIO	AROHATICH	DETYGEN ATED COM POST BEDS	LOSS	MEAK WEAK	STRONG ACIDS	BASES	LOSS
3 4 5 6 7	53 66 10 10 7 5 2 61 11 1	58 59 59 59 59 59 59 59	12 1 2 3 4 5 6 7 8	19 16 19 20 17 19 18 15	7845 10687 9720 7492 8910 8692 14940 13657 5790 6442	94 71 126 104 83 97 74 59 149 94 66	21 13 25 21 30 31 25 15 33 19 18	73 56 101 83 53 66 49 44 116 75 48	0011100	6 4 6 7 8 9 6 4 10 5 4	7 4 8 6 10 8 10 6 12 7 7	00 22 11 11 12 12 11 11 12 11 11 11 11 11	1 1 1 1 2 1	3 3 7 6 4 8	1 0 0 0 0 1 1 0 0 1 1	21 3 2 3 3 4 2 3 3 2 3	1 1 1 2 2 1 1	0	5 3 6 4 5 6 3 2 4 3 1

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER
(Para par MESO)

STATE

MINNESOTA

MAJOR BASIN

WESTERN GREAT LAKES

SUB BASIN

LAKE SUPERIOR

STATION LOCATION LAKE SUPERIOR AT

DULUTH, MINNESOTA

		OF BA	<u> </u>		_	177	TRACTABL						CHI OBOT	ORM EXTRA	CTABLES				
	INNI			-			1		 		Ι		NEUTRAL		C ABLES				
HE NOW	DAY	YZY	HE-MON	ПАУ	GALLONS FILTERED	TOTAL	CHLORD- FORM	ALCOHOL.	ETHER INSOLUBLES	WATER SOLUELES	TOTAL	ALIFIATIO	ABORATION	COSTYGICAL ATTEMPT COST POUNDED	Ļo s	WEAR	STRORG ACIDS	EASES	Loss
11 12 1 2 3 4 5 6 7 7 8 9	315522641638	588 559 559 559 559 559 559 559	2 3 4 5 6 7 8	15 19 16 16 20 18 15	4575 5617 5197 5258 6165 4837 5843 6617 5325 5745	113 139 145 112 101 130 117 88 137 125 115	21 34 29 21 27 26 25 32 31 26	92 105 116 91 80 103 91 63 105 94 89	0 1 1 2 2 4 2 2 1	9 13 9 7 7 10 10 8 9 10 7	44443344476	010000000000000000000000000000000000000	0 1 0 0	3 3 3 3 4 3 5	000000000000000000000000000000000000000	2 1 1 1 2 2 1 3 3 2	23211222321	1001001	3 11 10 6 8 6 10 7

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN VICROGRAMS PER LITTER

STATE

INDIANA

MAJOR BASIN

WESTERN GREAT LAKES

SUB BASIN

ST. JOSEPH RIVER

STATION LOCATION LAKE MICHIGAN AT

GARY, INDIANA

_	DATE	07 E	WFL	_		10	TRACTABL	£3	T				CHLOROF	ORM EXTRA	CTABLES				
	HAIL			100			1	[NEUTRALE						
номтн	DAY	YEAR	HUNOM	¥	GALLORS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER HONOLUMLES	WATER SOLUBLES	TOTAL	ALIMEATICS	APOEATICS	OFFICE ATTED COMPOUNDS	Lors	WEAK ACIDS	STRONG ACIDS	BASE	LOS
10 11 12 1 1 2 3 4 4 5 6 7 7 8 9	3 1 5 2 2 6 4 2 6 4	58 59 59 59 59 59 59 59	11 12 1 2 3 4 5 6 7 8	11 15 12 9 10 14 13 8	4870 4780 5000 5110 5110 5040 4730 5510 5020 5010	147 136 190 126 155 117 148 179 136 143 115 71	47 35 50 30 56 42 50 63 29 38 34 37	100 101 140 96 99 75 98 116 107 105 81 34	3 1 0 1 1 2 2 1 1	11 9 11 7 6 7 13 16 7 9 8 9	12 14 20 32 24 14 22 11 13 12 16	1 2 2 1 1 1 4	2	9 13 11 18 16 9 16 7 9	111012221231	53 63 63 100 63 67 4	41312453121	111111111111111111111111111111111111111	11 6 9 5 7 5 7 13 5 5 4 5

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WATER QUALITY BASIC DATA - MONTHLY EXPORT

ORGANIC CHEMICALS RECOVERED BY CARROW FILTER TECHNOLIS

RESULTS IN MICROGRAMS PER LITER

BTATE

NEW YORK

MAJOR BASIN

NORTHEAST

EUE BASIN

LOWER HUDSON RIVER

STATION LOCATION HUDSON RIVER BELOW

POUGHKEEPSIE, NEW YORK

DATE OF EA	MPLE		ED:	TRACTABL	ES					CHI DROF	ORM IXTRA	CTARLES.				
PEGINNING	END			}						NEUTRALE						
DAY YEAR	MONTH PAY	RALLONS FILTERED	TOTAL	CHLORO FORM	ALCOROL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPLATICS	AROBATICS	CENTER ATED COMPOSEDS	LOSS	WEAK ACIDS	STRONG ACIDS	BAIES	LOS
10 6 58 11 3 58 12 1 58 1 5 59 2 4 59 3 4 59 4 1 59 6 1 59 6 29 59 8 5 59 9 2 59	11 13 12 12 1 16 2 14 3 15 4 6 5 13 6 12 7 9 8 12	1010 5000 5001 5005 5233 5001 5000 5006 5360 5003	1106 1426 356 331 395 268 281 239 287 312 266 214	284 486 111 132 194 135 124 108 120 124 123 81	822 940 245 199 201 133 157 188 143 133	3 29 3 8 4 7 4 5 10 4 5 2	62 92 24 25 43 32 28 25 22 27 15	77 122 29 41 64 43 42 26 28 31 33 28	34	13 3 5 5 4 4 2 2 2 2	93 21 30 50 33 34 14 23 23	3 12 3 4 7 3 2 9 2 5 2	37 53 12 15 21 11 12 14 17 12	14 16	5 1 1 1 4 3 2 1 1 1 1 1 2	68 136 33 31 44 24 32 28 38 24 15

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Pers per litter)

STATE

MASSACHUSETTS

MAJOR BASIN

NORTHEAST

SUB BASIN

MERRIMAC RIVER

STATION LOCATION MERRIHAC RIVER ABOVE

LOWELL, MASSACHUSETTS

	DATE	DF E	A 141	_			10%	TRACTABL	Fe					CHLOROF	ORM EXTRA	CTABLE				
_	UNNI		_	<u></u>	$\overline{}$			I	<u> </u>					NEUTRALS						
НОМТН	DAY	, , , , , , , , , , , , , , , , , , ,	HE AS		PAT	EALLONS FILTERED	TOTAL	CHLORO- FOILH	ALCOHOL	ETHER ETHER	AYLES AYLES	TOTAL	менто	AROBATICS	OZYVIE ATRO CO II POURTEI	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LCome
	7 6 6 1	58 59 59 59 59	1	1 2 1 4 5 7	5 15 14 8 18 6 4 21	7160 6097 5782 615 5360 3275 5250 5970	102 335 316 673 145 318 194 230	37 181 137 270 67 140 112 108	65 154 179 403 78 178 82 122	04433732	9 34 25 73 15 29 26 21	8 49 40 78 24 50 40 38	1 1 6 20 6 4 5 5 5	15	45 45 15 39 32 28	0 12 5 1 0 5 2 1	3 48 21 41 0 13 12 11	3 13 8 21 5 14 11 11	1 2 1 5 1 3 2 2 2	13 34 36 49 11 24 10 23

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER
(Pers per Miller)

STATE

LOUISIANA

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER MISSISSIPPI-NATCHEZ TO GULF

STATION LOCATION MISSISSIPPI RIVER AT

NEW ORLEANS: LOUISIANA

	DATE	of s	MFL			10	TRACTABL	FE					CHI OROF	OBM EXTRA	CTABLES				
	INNI		Ю	_					+				NEUTRALE	ORM EXTRA	C I ABLES		 -		
MONTH	DAY	YEAR	н	DAY	GALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL.	THROUTH BYTER ETHEN	WATER SOLUBLES	TOTAL	ALIFEATION	AROBATICS	DETELEM ATED COMPOUNDS	Lom	WEAK	STROKS ACIDS	BASES	Loss
1 1 3 4 5 6 6 7 8	8 27 12 13 7 1 22 16 13	59 59 59 59	1 2 3 4 5 6 6 7	4 13 17 23 13 8 30 21 11 15 9	7334 7896 5906 6372 5000 6229 6229 6229 6229 6229	121 131 193 127 281 106 95 96 110 102	49 37 54 50 117 47 28 27 30 43 26	72 94 139 77 164 82 78 68 66 67 76	00 11 22 66 33 11 12 0	10 7 12 100 30 13 6 5 7 9 5	16 16 24 10 30 13 10 10 10 13 9	0 1 1 1 1 1 1 1 1 0 0	2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 2 4 1 2 1 1 0 0 0	5 4 6 4 11 5 3 4 5 3	2 3 3 12 4 2	1112010111	14 7 7 20 26 9 7 6 5 9 6

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Face per latter)

STATE

ARKANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER MISSISSIPPI-CAIRO TO HELENA

STATION LOCATION MISSISSIPPI RIVER AT

WEST MEMPHIS. ARKANSAS

											CHI OROF	ORM EXTRA	CTABLES				
DATE OF E	_				TRACTABL		 				NEUTRALE						
TEAN THE	١.) Ad	GALLONS FILTIDEED	TOTAL	CHLORO- FORM	ALCOHOL.	TH ZOTTI ET EZ ELHEN	WATER SOLUBLES	TOTAL	ALIPHATICE	AROMATICS	OTTYLES ATED COS POS SOS	Loss	WEAK ACIDS	ETRONG ACIDS	BASEB	LONG
10 6 58 11 3 58 12 1 58 6 22 59 7 13 58 8 17 59 9 14 59	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 200 11 177 12 24 11 277 16 29 17 24 17 27 17 20 17 2	5080 2540 1650 3270	158 141 292 332 162 194 139 129	49 34 73 127 41 60 47 26	109 107 219 205 121 134 92 103	2 1 1 2 1 1	10 6 16 30 9 13 9 4	16 18 26 39 18 20 13 12	1 1 2 3 3 1 1 2 1	3 3 4 2 2 1	11 20 29 12	0 3 1 3 1 3 1 3	6 4 8 7 9	11 25 2 2	1 1 2 3 0 0 1 1 1 1 1	10 2 15 26 6 11 14 3

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER
(Per per helico)

STATE

M1550URI

MAJOR BASIN

UPPER MISSISSIPPI RIVER

BUR BARIN

MISSISSIPPI-CAPE GIRARDEAU AREA

STATION LOCATION MISSISSIPPI RIVER AT

CAPE GIRARDEAU. MISSOURI

	ATE	OF SA	MPLE			100	TRACTABL	<u> </u>					CHI OROF	ORM EXTRA	CTABLES	_			
	INNI	-	D				}						NEUTRALE						
HUMON	DAY	YEAR	HENOM	PA	EALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER 1450LUBLES	WATER BOLUBLES	TOTAL	ALIPIATICS	ARCHATICS	CONTRACTO ATTEN COOR PORTURE	Long	WEAR	STRONG ACIDS	BASES	LOSS
11 12 1 2 3 4 5 6 7 8 9	31522641638	58 59 59 59 59 59 59 59 59 59 59 59 59 59	12 1 2 3 4	19 16 16 20 18 15 20 17	2445 5085 5145 4252 4485 3575 3985 4860	473 265 309 365 438 257 222 249 226 159	164 93 131 133 163 91 102 77 79 86 37	309 172 178 232 275 166 197 145 170 140 122	3 0 1 3 5 3 4 5 2 4 1	28 11 15 21 39 23 26 18 15 17 6	80 51 77 65 55 28 19 23 26 16	2 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1	11 34 21 5 2 2 2 1	24 29 31 43 19 18 16 17	7 11 12 12 6 3 7 1 4 2 1	11 13 13 18 11 12 9 13	19 5 9 18 10 12 8 7 9 2	2 1 1 2 1 1 1 1 1 1	18 14 19 21 28 17 19 16 18 16 6

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER

STATE

ILLINOIS

MAJOR BASIN

UPPER MISSISSIPPI RIVER

GUB BASIN

MISSISSIPPI RIVER-ST. LOUIS AREA

STATION LOCATION MISSISSIPPI RIVER AT

EAST ST. LOUIS. ILLINOIS

0.7	W	-			M.	TRACTABL	f=			-		CHLOROS	ORM DATE	ACTABLES				
INTO	7	ED4	_			1		 		Γ		NEUTRALE						
3		МОМПН	DAY	ENOTIVE DENETTI	TOTAL	CHLORO FORM	ALCOHOL	ETHER INSOLUBLES	WATER EDLUBLES	TOTAL	ALIMEATICS	ABORATICS	OXYVEN ATED COMPOUNDS	LONG	WEAK ACIDS	STRONG ACIDS	BASES	LO
555 555 555 555 555 655 655 655 655 655	999999999999999999999999999999999999999	11 12 1 2 3 4 5 6 7	214315426494310	3464 2905 3756 4158 3416 4102 3894 4603 3598 3329	299 363 264 301 409 430 295 345 175 208 -	104 120 91 84 132 171 92 84 50 61 110 87	195 263 173 217 259 203 261 125 147 248	140112233322	29 30 19 18 25 34 21 13 12 22 19	262 336 468 28 215 30 23	1 1 1 1 2 1 1 1 1 3 1 1	3 5 4 3 4 2 2 1 2	26 26 27 35 44 23 21 10	2	10 13 11 9 15 21 9 10 5 7 13 11	10 13 7 5 12 15 6 5 12 7	43 223 3 2 2 1 1 2 2	24 25 17 13 30 38 22 16 10 18 29 23

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

HESULTS IN MICROGRAMS PER LITTER
(Part par Males)

STATE

10WA

MAJOR BASIN

UPPER MISSISSIPPI RIVER

EUB BASIN

MISSISSIPPI-DES MOINES-SKUNK RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

BURLINGTON IOWA

DATE OF	444	-			IDX	TRACTABL	MI					CHI ODOF	ORM EXTRA	CT 4 21 FE				
BEGINNING			-									NEUTRALB		CIABLES			-	
HT PAGE	\neg	МОНТН	DAY	WALLOMS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL.	ETHER HADLUNIES	WATER MOLUMEN	тотд	ALIHLMOI	AROMATICS	CEYCER ATED CON POURDS	LONG	ACIDS WEAK	STRONG ACIDS	BASES	LÓNES
12 1 5 5 2 2 5 4 6 5 5 4 5 6 1 5 7 6 5 8 3 5	88	2 4 5 6 7 8	15	5175 5000 3640 4890 5090 5000 5000 5000 5010 5090	194 202 123 175 211 226 208 151 205 199 167	67 64 604 55 78 43 63 637	127 138 63 111 156 147 125 108 138 136 120	1 1 1 2 4 2 3 1 3	17 17 18 17 12 21 22 10 18 12 10	15 19 17 17 17 23 20 12 18 19 12	1 1 1 1 1 1 2 1	1 1 1 1 2 1 1 2 1 1 1 2 1 1	15 14 13 13 20 14 10 15	1 2 1 1 1 1 2 0 1 1 1	9 10 5 8 7	663694644	1 3 2 1 1 2 2 1 1 1 1 1 1 1 1	21 8 13 15 16 16 19 13 19

PRESENTE ILET WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER (Perm per Julius)

STATE

IOWA

MAJOR BASIN

UPPER MISSISSIPPI RIVER

NIBAE BUB

MISSISSIPPI-WAPSIPINICON & TRIB.

STATION LOCATION MISSISSIPPI RIVER AT

DUBUQUE, IOWA

DATE OF B	44	-		53	TRACTABL	rs.	Τ				CHLOROF	ORM EXTRA	CTABLES				
PEDINNING	_	ND	1		1						NEUTRAL						
DAY YEAR	HONTH	PAY	GALLONS FILTERED	TOTAL	CHLORO FORM	ALED HOL	ETHER INSOLUBLES	WATER BOLUBLES	TOTAL	ALIPEATICS	AROBLATICS	CONTROL EST ATTED CONTROL FOR	Los	WEAK ACIDS	STRONG ACIDS	BASEB	LOSS
12 8 58 1 5 59 2 9 59 3 9 59 4 6 59 5 4 59 6 1 59 7 7 59 8 4 59 8 31 59		2 18 14 12 22 22 3 177 15 3 11 10 10	2400 3744 3045 6150 4357 5512 3398 4845	227 501 367 396 196 210 161 364 210 137	71 106 80 131 74 67 57 99 90 42	156 395 287 265 122 143 104 265 120 95	1 12 3 9 2 4 2 6 5	17 22 20 35 19 16 13 24 21 8	16 18 21 26 19 19 13 20 21 13	2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 1 1 1 1 2 1	16 16 10 17	3 1 2 2 1 1 1 1 0 1	14 10 8 10 7 9 6 10 10 3	6 10 6 13 5 6 5 9 8 1	1001331111112200	16 34 21 35 21 12 7 29 23 17

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

HECOVERED BY CARRON FILTER TECHNIQUE

RESULTS IN MICROGRAMS PER LITER

STATE

MINNESOTA

MAJOR BABIN

UPPER MISSISSIPPI RIVER

SUB BASIN

UPPER PORTION UPPER MISSIS 7

STATION LOCATION MISSISSIPPI RIVER LOCK DAM 13 5.4

MINNEAPOLIS, MINNESOTA

Total State Stat
TOTAL CHLORO-FORM ALCOHOL STANDING STANDING ALCOHOL SOLUBLES TOTAL ALIPHATICS ARGRATICS CHRORO-FORM ACICS STANDING ACICS
11

11 87

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER

STATE

MISSOURI

MAJOR BASIN

MISSOURI RIVER

EUE BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M36 AT

ST.LOUIS, MISSOURI

DATE OF BA					CTRACTABL		т				CHI OROS	ORM EXTR	CTABLES				
BEGINNING	IDI IDI				TRACTABL		 	г ——			NEUTRAL		CIABLES		Г		
HLWOW AVAL	r l	DAY	FILTERED	TOTAL	CHLORO- FORM	ALCOHOL.	ETHER Ingolubles	WATER SOLUBLES	TOTAL	ALIPEATICS	AROMATICS	OXYGER ATED COMPOUNDS	Loss	ACIDS ALEVX	STRONG ACIDS	BASEN	LOSS
10 13 58 1 19 59 2 16 59 3 30 59 4 27 59 6 22 59 8 3 59	10 2 3 4 5		7200 4777 3248 3307 6322 5056 6465	98 207 354 250 130 123 106	36 73 122 68 42 41 36	62 134 232 182 88 82 70	1 1 2 3 2 1	10 18 32 16 11 9 8	9 22 44 19 11 15 14	0 1 2 2 1 4 4 4	3 3 2	7 16 37 14 8	1 2 2 1 1 1 1 0	5 11 5 4	6 7 5	1 1 1 1 0 0	8 17 23 17 8 7
												į					

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER

STATE

KAN5AS

MAJOR BASIN

MISSOURI RIVER

SUB BABIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER AT

KANSAS CITY, KANSAS

DATE OF	_	_			TRACTABL	<u>F6</u>		,				ORM EXTRA	CTABLES				
DENIMINATE OF	├	ND.	0411000								NEUTIAL						
DAY	нцюя	DAY	GALLONS FILTERED	TOTAL	CHLORO- PORM	ALCOHOL	ETHER Indocumles	WATER SOLUBLES	TOTAL	ALIMATICS	Монуна	CETTO ETO ATTED COST POOR EEON	LOSS	WEAK	ACIDS	MH	LO G
10 20 58 11 10 58 11 26 58 3 30 59 4 27 59 5 18 59 6 15 59 7 13 59 8 18 59 9 21 59	3 112 3 122 9 2 9 3 9 4 9 5 9 6 9 6 9 7 9 9	23 15 17 13 20 13 11 29 30	4974	118 134 131 170 228 160 83 99 87 67 75 81 71	20 28 21 41 35 67 28 23 25 19 14 11	98 106 110 193 93 55 76 48 61 71	0 0 0 1 0 0 3 0 1 0 0 0 0 0 0 0 0 0 0 0	5 6 4 10 6 17 8 4 3 3 1 2	8 11 10 14 15 19 8 6 6	1 2 2 2 2 1 1 1 1 1	1 2 2 2 1 1 1 1 1 1 1 1 1	6	1011010000	23 25 6 3 2 2 2 1 2 1	1 1 3 2 5 2 1 1 1	011211111111111111111111111111111111111	4 4 3 6 6 16 5 3 1 1

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

AECOVERED BY CAREON FILTER TECHNIQUE

RESULTS IN MICROGRAMS PER LITTER (Page per Liller)

STATE

MISSOURI

MAJOR BABIN

MISSOURI RIVER

EUB BASIN

LOWER MISSOURI BELOW NIOBRARA RIVER

STATION LOCATION MISSOURI RIVER AT

ST. JOSEPH, MISSOURI -

	EXTRACTABLE	g				CHLOROF	ORM EXTRA	CTABLES				
	1					NEUTRALS						
A LCYS TF153	TOTEL CHLORO FORM	ALCOHOL STHER INSOLUBLES	WATEP SOLUBLES	TOTAL	ALIPRATICS	ARONATICS	OTYGEN ATED COMPOUNDS	Loso	WEAR ACIDS	STRONG ACIDS	BASES	L0 55
3 58 10 20 5025 11 3 58 11 17 4050 1 58 12 15 5272 15 59 3 29 4792 15 59 4 26 5265 10 59 5 25 2597 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257 5 59 7 18 5257	74 20 195 38 172 58 192 60 228 52 70 18 242 87 51 12 86 11 102 24 167 44 89 20	54 0 157 0 114 1 132 3 176 1 52 1 155 4 39 0 73 7 78 U 123 2 69 3	6 11 15 10 5 24 3 2 6 12 2	7 12 19 18 6 17 4 9 8 9	1 1 1 1 1 1 1 1 1 0 2	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 9 13 13 14 4 13 2 2 6 7 5	0023220021001	2 4 6 5 6 2 10 2 1 3 5 2	3 5 4 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 13 12 2 21 1 1 5 12 2
					 	,						

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WATER QUALITY BASIC DATA - MONTHLY BEFORT

ORGANIC CHEMICALS

RECOVERED BY CLEREOU FILTER TECHNIQUE

RESULTS IN MICROGRAMS PLR LITER Parts per billions STATE

NEBRASKA

MAJOR BASIN

MISSOURI RIVER

SLE PASIN

LOWER MISSOURI RIVER

STA ON LOCATION MISSOURI RIVER 4042 A

OMAHA, NEBRASKH

	DAT	E OF	BAN	PLE			Ð	TRACTABL	ES					CHLORGE	DAM EXTRA	CTABLES				
B E0				BN	D	1								NEUTRALE]			
HUMATH	DAY		YEAR	МОМПН	ρĄ	GALLONS FILTERED	TOTAL	CHLORO FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	AL PRATICE	PERMATICAL	ONTO EN ATED COMPOUNTS	Loss	WEAK ACIDS	STAPNE 20/0A	CASES	155
11 12 1 2 3 4 5 6 7	10 30 21 21 21 21	0 ! 9 ! 5 2 ! 7 ! 7 ! 7 !	58	11 12 1 2 3 4 5 6 7 8	27 22 19 16 13 11 8 5 3 3 2 8	4032 7008 5421 6075 5916 6094 3723 3861 1322 93129 2522 6000	175 120 159 131 134 142 233 215 294 72 28 107 72	50 30 34 33 32 53 79 67 48 19 22 14	125 90 125 98 102 154 148 246 53 19 85 58	100011122442110011111111111111111111111	16 5 9 9 13 23 15 14 5 3 4	10 9 7 10 11 17 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	100 CO 11 3 10 CO 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 6 7 8 10 15 13 4 4		3 3 3 2 5 6 7 4 4	7. 62. 2		

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER (Parts per HEEss)

STATE

SOUTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

BUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M841 AT

YANKTON, SOUTH DAKOTA

DATE OF			_		- FO	TRACTABL	FR					CHLOROF	ORM EXTRA	CTABLES			_	
PEGINNING		DO	\dashv		<u>_</u>		-	 				NEUTRALE						
_		HE-MON	DAY	MALLONS	TOTAL	CHLORO FORM	ALCOHOL	ETHER EXECUTORES	WATER SOLUBLES	TOTAL	ALIMATICA	ABORATICE	OZYGIES ATED GOSPOUEDS	LONG	WEAK ACIDS	STRONG ACIDS	BASES	Lo s
12 23 5 1 19 5 2 16 5 3 16 5 4 20 5 5 18 5 6 21 5	58 59 59 59 59 59 59	12 1 2 3	10 8 5 2 2 30 4 1 13 24 5	5320 3160 4450 3990 5230 4290 2580 3390 4990 3510	110 189 144 167 191 140 157 255 290 139 176	34 33 29 44 29 32 58 45 31 32	76 156 115 123 162 108 99 210 232 108 144	1 0 0 1 1 1 2 1 1 1	11 11 8 9 17 10 15 7 9	7 10 9 10 12 9 12 16 18 10 11	0 0 0 1 1 1 0 1 1 1 1 1 1 1	1 1 1 0 1 1	8 7 7 9 9 10 13	011111000031100	3 3 2 5 3 3 B 7 6 4 3	31142264412	111111111111111111111111111111111111111	8 7 8 10 2 7 11 6 12 7 5

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Part per Miller)

STATE

MORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER MI377.4 AT

BISMARCK, NORTH DAKOTA

DATE OF			\neg		F-7	TRACTABL	F6											
BEGINNING	_	ION	, -			TRACTABL			Γ				ORM EXTRA	CTABLES				
HT YAU	十	Ţ	PA	PALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHEM MEGLUBLES	WATER SOLUBLES	TOTAL	ALIFFATICE	ABDEATIO	OETTE EN ATED COM POSTADA	LONI	WEAK ACIDE	STRONG ACIDS	MES	LOSS
10 1 5 11 5 5 12 9 5 1 15 5 5 4 14 5 6 2 5 7 28 5 9 2 5	8 9 9 9 9 9	1 2 3 5 6 8	278 1728 128 128 128 216	2460 2340 2400 2400 2242 2340 2340 2385	144 161 150 148 149 203 251 259 192	35 38 25 27 24 46 66 72 31	109 123 129 121 125 157 185 187 161	0 0 0 0 2 3 3 1	10 11 7 8 7 12 17 19 7	14 13 10 9 13 16 19 13	1 2 1 1 1 1 1 1 1 1 1	1 2 1 1 1 2 1	11 9 7 7 6 10 13 16 10	1 0 1 1 1 1 1 1 0 0 1	7	2 2 1 1 1 4 5 4 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 4 4 8 17 20 4

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS ESCOVERED BY CARBON FILTER TRESIDENTS

RESULTS IN MICROGRAMS PER LITTER (Pers per tables)

BTATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

BUB BASIN

MIS'SOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER AT

WILLISTON, NORTH DAKOTA

		1	TRACTABL	Fa					CHLOROF	ORM EXTRA	CTABLES				
TAL F AMPEL		├ 	I ACIABL						NEUTRALE						
	GALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL.	ETHER THEOLUGIES	WATER SOLUBLES	TOTAL	ALIFEATICS	ABORATICE	DECEMBERS OF THE COST POOL OF THE COST P	LORE	WEAR ACIDS	STRONG ACIDS	BASSES	Loss
10 8 58 10 26 11 10 58 11 19 12 1 58 12 16 1 7 59 1 29 2 16 59 2 25 3 30 59 4 15 5 4 59 5 20 6 1 59 6 19 6 29 59 7 16 8 5 59 8 21 9 2 59 9 18	4687 4192 8505 7012 4955 9862 10061 5677 8775 8362	138 63 51 117 107 104 60 39 79 69 64	19 13 9 17 19 29 11 8 22 19 20	119 50 42 100 88 75 49 31 57 50 44	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 8 3 2 6 6 5	6546664766	0 1 0 0 1 1 1 0 0	0 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 3 4 6 6 4 7 3 3 5 5 4 4	000000000000000000000000000000000000000	1 2 2 3 1 1	1 0 1 2 1 0 2 1	0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 1 2 4 5 6 2 1 3 2 6

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER
(Part per biller)

STATE

ILLINOIS

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

CAIRO, ILLIMOIS

	DATE	OF E	WFL			100	TRACTABL	F					CIII OBOT	ORM EXTRA					
	JIHHI		_	ND					 				NEUTRAL		CIABLES				
н	DAY	YEAR	нски	DAY	EALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHEN THEN	WATER SOLUBLES	тотд	шнита	ABORATICE	CONTRACTO ATTEN COMPOSITION	Loss	WEAK ACIDS	STRONG ACIDS	IAJES	1.0025
4 5 6 7 8	3 8 5 9 23 16 11 8 6 10 21		1 2 3 4 5 5 6 7 6 6	24 6 4	2349 2750 2528 3215 2940 4867 7522 7312	262 258 223 283 181 237 128 109 107 116 168	82 76 50 66 36 33 35 36 38 43	180 162 173 217 145 158 95 74 71 78 125	1 1 1 0 2 0 1 1 1 2	21 16 8 11 6 17 6 8 10 7 11	28 27 23 40 21 30 16 13 10 14 15	4 3 3 5 5 6 2 2 1 1 1 1	3 3 3 4 3 5 2 1 1 1 2	19 13 29 13 18 12 9 7	1 2 4 2 0 1 1 1 1 1	877543954545	65221522323	22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 10 7 4 15 3 6 7 9 6

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER

STATE

INDIANA

MAJOR BABIN

OHIO RIVER

SUB BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

EVANSVILLE, INDIANA

DAT	TI C	¥ 14	MPL	-	1	1 10	CTRACTABL	r=	1				CHLOROF	ORM BOTTRA	CTABLES	_			
BEGIN		_		10			T		 				NEUTRALE						
HOWATH AND AND AND AND AND AND AND AND AND AND		YEAR	HEMON	DAT	BALLORS FILTERED	TOTAL	CHLORO- FORM	ATCOHOT	STHER ETHER	WATER MOLUBLES	TOTAL	ALIPKATICE	AROMATICS	DETREEN ATED CORPOREDE	هما	WEAR	STRONG ACIDS	BA SID	LOSS
1 2	27			•	5040	107	31	76		5	17	•	3			3	1		4

1 **1245 1** 11 **17** WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

PESULTS IN MICROGRAMS PER LITTER (Pers per latter) STATE

OHIO

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER M510 AT

CINCINNATI, OHIO

DATE				_	_		TRACTABL												
IINNI		7		\dashv			I RACIABL						NEUTRAL	ORM EXTRA	CTABLES				
DAY	3		T	DAY	GALLONS FILTERED	TOTAL	CHLORO FORM	ALCOHOL	ETHER HESOLUBLES	WATER SOLUBLES	TOTAL	ALIFIATION	Aboutice	OTTELES ATED COMPOSITOR	LOSS	WEAK ACIDS	STRONG ACIDS	МЯЗ	LOS
100 100 77 49 99 66 61 138 8	5 5 5 5 5 5 5 5	8 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1212345689	19 17 25 23 14 17	2633 6173 5063 3303 3075 3750 4358 1765 3029	497 168 235 271 237 318 235 249 772 386	177 97 76 109 138 88 104 280 149	320 71 159 162 138 180 147 145 492 237	5342682433	37 22 14 21 33 18 20 50 31	57 36 31 60 39 46 41 40 104 55	3 5 4 10 9 8 12 3 5 3		21 20 32 23 28 20 30 58	3 6 2 7 0 3 2 2 4 6	18 10 9 10 9 11 9 16 39 16	14 8 5 4 6 14 5 8 28 11	4 2 2 2 1 1 1 2 6 3	42 16 11 30 16 25 12 14 50 30

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER
(Part per Miller)

STATE

WEST VIRGINIA

MAJOR BABIN

OHIO RIVER

BUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

BTATION LOCATION OHIO RIVER AT

HUNTINGTON, WEST VIRGINIA

DATE OF B	IAMPL			ID:	TRACTABL	F. 6					CHLOROF	ORM EXTRA	CTABLES				
BESINE ING		ND			1						NEUTRALS						
DAY	H. H.	DAY	GALLONS FILTERED	TOTAL	CHLORO FORM	ALCOHOL	ETHER UNSOLUBLES	WATER SOLUBLES	TUTAL	ALIPRATICE	AROHATICS	ATIED COMPOSITION	LO=	WEAK ACIDS	STRONG ACIDS	BASEE	LOS
11 1 58 12 1 58 12 29 59 3 1 59 3 30 59 4 27 59 6 1 59 6 29 59 7 59 7 59 7 59 7 59 7 59 7 59	8 11 8 12 8 12 8 12 9 2 9 2 9 2 9 2 7 5	2 16 3 16 3 18 5 18 5 15 7 20 8 17 7 21	4140 3375 4012 2925 3465 3662 4686 37662 3510 4222	352 416 474 422 263 309 323 218 369 482 639 577 384	148 156 183 197 83 117 129 94 140 197 295 318 94	204 260 291 225 180 192 194 124 229 285 344 259 290	3 3 10 2 8 9 5 10 6 6 6 3	34 31 39 33 17 26 31 18 31 35 59 76 22	37 62 64 85 41 41 37 34 42 55 109 108 35	1 1 3 6 6 5 4 4 1 2 2 1 1	4 3 7 7 5 4 6 3 3 7 3 3	51 42 57 25 29 27 21 36 44	10 7 12 13 3 2 2 3 2 6 4 9	15 16 18 16 5 8 12 10 15 24 35 10	12 15 14	1 5 4 4 2 2 1 2 3 2 9 10 3	427 38 35 44 25 24 25 24 25 46 11

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER
(Parts per letter)

STATE

MARYLAND

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

GREAT FALLS. MARYLAND

DATE OF &	AMPLI			- ID	TRACTÁBL	FE					CHLOROF	ORM EXTRA	CTABLES				
BEHINNING	_	ND N									NEUTRALE						
DAY YEAR	HON	DAY	GALLONS FILTERED	TOTAL	CHLORO FORM	ATCDHO!	THE STATES	WATTER SELECTION	TUTAL	ALIPHATICS	EDITARDEA	DETYNICH ATTED COMPOUNDM	LONG	WEAK ACIDS	STRONG ACIDS	BASES	Loss
10 6 58 11 10 58 12 18 58 1 12 59 2 9 59 4 6 59 5 4 59 6 1 59 8 11 59	11 12 1 2 3 4 5	20 29 27 24 24 20 18	5304 5337 6404 3085 3853 2812 2942 3428 2810 3297 2797	157 141 204 502 291 341 424 325 379 364 393	53 41 57 163 86 145 137 112 138 101 101	104 100 147 319 205 196 287 213 241 263 292	1 0 1 9 7 12 12 5 2	14 10 14 36 22 33 36 29 36 19 22	17 12 20 46 21 45 25 20 24 30	1 1 1 1 1 1 2 2 0 1	1 1 4 1 6 2' 2	9 18 38 16 33 21 14 22	1100235130033	6 4 7 15 11 15 12 10 10 10	2 3 15 6 10 16	1 1 2 4 2 4 1 1 3 1 2	10 12 10 58 29 40 33 34 32 27

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Press per belles)

STATE

MARYLAND

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

WILLIAMSPORT, MARYLAND

	DATE	of sA	MPLE	\neg		Ð	TRACTABL	E6	_				CHLOROF	ORM EXTRA	CTABLES				
DE	HHI	на	D	Ð									NEUTRALE						
н	DAY	YEAR	монтн	DAY	FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPIATIO	ABORATICS	DETRIES ATED COS POS MOS	LONG	WEAK	STRONG ACIDS	МЯДЭ	េស
10 11 12 1 1 2 3 4 5 6 6 7 7 8 8	4 1 5 2 2 6 4 1 6	58 59 59 59 59 59 59 59 59 59 59 59 59 59	11 12 1 2 3 4 5 6 7 8	13 8 12 10 10 15 11 15 14	4690 3902 5016 5210 4925 2754 5165 4849 5337 5019 5215 5000	204 252 244 268 223 413 207 195 204 223 248 194	88 80 77 142 90 161 53 80 73 112 62	116 172 167 126 133 252 124 115 131 130 136 132	2 1 1 6 2 6 3 5 4 4 3 1	23 20 16 21 13 35 19 20 27 25 13	23 25 27 43 42 23 20 185 35 22	1 1 2 1 1 1 1 1 1 1 0 0	2 2 3 3 3 2 1 1 1 2	19 22 33 25 34 14 16 15 20	3 3 1 6 3 2 6 2 1 3 3 3 3	13		1 2 2 1 1 1 2 2 3	23 20 17 42 23 44 19 20 16 16 24 13

WATER QUALITY BASIC DATA - MONTHLY EEPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER

STATE

TEXAS

MAJOR BAGIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

BUB BABIN

LOWER RED RIVER BELOW DENISON

STATION LOCATION RED RIVER AT

DENISON, TEXAS

CATE OF GAMPLE			TRACTABL	F.S	Γ				CHLOROF	ORM EXTRA	CTABLES				
LINE END				<u> </u>					NEUTRAL					1	
	ALLONS LITURED	TOTAL	CHLORO FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALL PRIATICS	AROBATICS	DETROER ATED COE POUNDS	Loss	ACIDS WEAK	STRONG ACIDS	BASES	L058
11 3 58 11 12 12 1 58 12 9 1 5 59 1 12 2 3 59 2 9 3 2 59 3 9 4 7 59 4 13 5 4 59 5 11 6 1 59 6 9 7 6 59 7 13 8 3 59 8 10	5110 6340 5350 5160 5180 5190 5150 5150 5160 5230 5030 5160	102 157 206 232 204 238 269 232 283 274 268 265	51 42 59 60 49 66 72 68 63 68 66 64	51 115 147 172 155 172 197 164 220 206 202 201	1 1 2 2 4 3 4 4 2 2 3	14 11 17 16 13 16 19 19 14 18 16 6	12 11 13 15 14 15 17 17 13 16 18 19	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 2 2	9 12 12 12 14 14 10 14 13	110011100222	445546665776	4365 4668 7776	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 11 15 16 10 18 20 13 19 17 15 23
						!									

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER

STATE

TEXA5

MAJOR BABIN

WESTERN GULF

SUB BASIN

LOWER RIO GRANDE BELOW PECOS

STATION LOCATION RID GRANDE RIVER AT

LAREDO, TEXAS

			_								=:=:==				
DATE OF MAMPLE	4		TRACTABL	L2					HEUTRALE	ORM IDITRA	TABLES		ı ———		
ECONTH DAY YEAR DAY	#ALLONS FILTERED	TOTAL	CHLORe- FORM	ALCOHOL	ETHER THEOLURIES	WATER BOLUBLES	TOTAL	мінип а	ARCHATICS	CORPORTED ATTEMPT OF THE CONTROL OF	LOID	WEAK ACIDS	STRONG ACIDS	IASE3	Lo so
2 9 59 2 1 3 3 59 3 1 3 23 59 4 4 20 59 4 2 5 12 59 5 2 6 2 59 6 1 7 6 59 7 1 8 4 59 8 1	5 2548 5 7243 4 10471 7 10589	531 134 73 64 53 91 94 62 82 86 107 80 71	77 21 24 23 17 24 19 19 22 28 31 24 9	454 113 49 41 36 67 75 43 60 58 76 56 62	0 0 0 0 0 1 1 2 2 1 0	18 5 3 2 2 3 4 3 4 5 8 6 2	41 11 17 17 13 15 10 10 9 13 11 9 5	9 4 12 12 8 9 4 5 3 6 6 3 3 3 1	1 2 2 2 2 1 1 1 1	5 5 7 5	0	2 1 1 1 1 1 1 2 3 3 2 2 2	1 0 0 1 1 1 1 1 1	1	I .

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER
(Pers per billion)

STATE

TEXA5

MAJOR BASIN

WESTERN GULF

SUB BABIN

UPPER RIO GRANDE ABOVE PECOS

STATION LOCATION RIO GRANDE RIVER AT

EL PASO, TEXAS

DATE OF B	4307				CTRACTABL	<u> </u>					CHLOROF	ORM EXTRA	CTABLES				
PERINAMO		9		-	THE PARTY OF THE P	<u> </u>	 				NEUTRALE						
HOWTH TAM	HUMAH	, As	EALLONI FILTERED	TOTAL	CHILDRO- FORM	ALCOHOL	ELHEV FLAGOTINEZ	WATER MOLUBLES	TOTAL	ALPANO	AROMATICS	UZYUZU ATED COM POURDU	Lámu	ACIDS	STRONG ACIDS	BARES	Lotte
10 6 58 10 27 58 4 6 59 5 4 59 7 7 59 8 3 59 9 8 59	11 4 5 6 7 8	1 17	4665 2096 4807 5107 4982 5512 4980	140 196 187 167 141 152 118 105	35 44 46 26 42 34 27	105 152 141 121 115 110 84 78	0 1 1 2 1 3 2 1	8 11 11 12 7 11 9 6	11 17 19 12 9 13 11 8	1 2 1 1 1 1 1 1 1 1	1 2 2 1 1 1 1 1 1 1	8 12 16 9 6 10 8 6	1101110	34553432	22341221	111111	10 8 6 10 4 8 6 8

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER

STATE

SEORSIA

MAJOR BASIN

SOUTHEAST

SUB BASIN

SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT

PORT WENTWORTH, GEORGIA

DATE O	-	-	_			TRACTABL	R S					CHLOROF	ORM EXTRA	CTABLES				
BEGINNIN			$\overline{}$									NEUTRALE						
HE AND AND AND AND AND AND AND AND AND AND	*	номи	DAY	MALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TÖTAL	ALIPSATICS	ASCRATICS	CEYCER ATED COMPOSINGS	Loss	MEAK	STRONG ACIDS	BASES	10 5 5
3 16 4 20 6 8	59 59 59	4 5	3 12 22	2830 4230 3780 4240 4020	6-6-8 3-29 3-37 1-8-2 3-15	207 115 120 73 138	461 214 217 109 177	19 3 7 4 8	39 25 29 16 28	31 26 20 17 36	2012	2 3 2 2	24 21 16 12	3 2 1 1 2	19 14 16 10 18	19 15 12 7 12	2 1 1 1 1 1 1 1 1	78 31 35 18 35
						1	1											

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Parts per Miller)

STATE

SOUTH CAROLINA

MAJOR BASIN

SOUTHEAST

SUB BASIN

SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT

NORTH AUGUSTA, SOUTH CAROLINA

					TRACTABL						CHI OBOF	ORM EXTRA	CTAPLES				
BEGINNING		ND.			THALTABL	1		Γ			NEUTRAL						
HE VAG	HIDWITH	1	GALLONS FILTERED	TOTAL	CHILORO- Form	ALCOHOL	ETHER INSOLUBLES	WATER POLUBLES	TOTAL	ALIFFATICE	ABORATICS	OZTUEN ATED COMPOSIDE	Lossy	WEAK	STRONE ACIDS	BASES	LOSS
10 28 58 1 12 59 2 7 59 3 23 59 4 20 59 6 2 59 8 8 59 8 28 59	1 2 4 5 6	21 16 7 1	6381 5444 5553 5221 6038 9386 5089 7292	111 125 207 202 151 109 178 139	40 40 87 55 60 38 69 42	71 85 120 147 91 71 109 97	1 2 3 1 3 3 5 2	12 11 24 15 11 19 11	9 10 19 10 11 8 13 12	1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 1 1 1 1 1 1	8 18 7 10 7	000120111111	4 3 6 6 6 3 6 5 5	2 6 4 6 3	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 12 28 18 18 9 19 7

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER (Parts per belless)

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

SUB BASIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION SNAKE RIVER AT

WAWAWAI, WASHINGTON

	DATE	OF EA	MEL			IDX	TRACTABL	IS.					CHLOROF	ORM EXTRA	CTABLES				
	INNI	_											NEUTRALE						
HEADN	DAY	YEAR	ном	DAY	WALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	APORATICS	COMPOUNDS ATED CATREN	Less	WEAR ACIDS	STRONG ACIDS	MB	1053
5 6 7	6 9 30 11 15 20	59 59 59 59	11 3 4 5 6	20 25 29	5360 4410 4080 4700 4500 6000 5750	102 106 151 137 164 175 105 153 134	30 34 48 40 63 81 40 74 38	72 72 103 97 101 94 65 79 96	0 0 1 0 6 6 4 7 1	7 7 7 6 14 14 7 9	13 14 20 18 25 12 25 16	1 1 1 1 2 1 1 1 2 2 1 1 2 2	1 2 3 2 1 2 2 2 2	10 13 14 14 16 9 20	1 1 2 5 1 2 1	7 6 8 11 5	2 2 1 2 5 7 2 4 2	1 1 1 0 0 1 2 1 2 1 1	6 11 8 11 16 9 13 5

Med 3848 8 11 87 WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITTER (Pers per billion)

STATE

IDAHO

MAJOR BASIN

PACIFIC NORTHWEST

SUB BABIN

CENTRAL SNAKE RIVER

STATION LOCATION SNAKE RIVER AT

WEISER, IDAHO

											CHLOROF	DOM FYTO	CTABLES				
DATE OF B	_	40			TRACTABL	1					NEUTRALS						
TEAN TEAN	HE WOR	DAY	BALLONS	TOTAL	CHLORO- FORM	ALCOHOL	ETHER ETHER	WATER SOLUBLES	TOTAL	ALIPKATICE	ARGEATICS	ONTERES ATED COMPOUNDS	Logg	WEAK ACIDS	STRONS ACIDS	BASEB	Loss
1 12 59 2 11 59 3 9 59 5 5 59 7 8 59 9 9 59	2 3 5 7	23 19 30 18 19 20	794 2304 2497 2167 2034 2255	271 181 186 215 217 150	63 32 25 73 61 24	208 149 161 142 156 126	1 0 0 1 3 1	14 6 6 17 16 4	30 9 10 20 18 14	6 1 1 2 2 2 3	1 1 2 2	15 13	2 1 0 1 1 1 1 1	6 4 3 10 7 2	2 1 8 4	1 1 1 3 1 0	7 10 4 14 12 2

P10 MAI 6

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS ESCOVERED BY CARROW FILTER TRANSPORTE

RESULTS IN MICROGRAMS PER LITTER (Peroper billion)

STATE

TENNESSEE

MAJOR BASIN

TENNESSEE RIVER

SUB BASIN

TENNESSEE MAIN STEM & MINOR TRIB.

STATION LOCATION TENNESSEE RIVER M465.3 TVA AT

CHATTANOOGA, TENNESSEE

DATE OF	BAN		$\overline{}$		D	TRACTABL	FE					CLD OBOL	OBIL EVERAL					
BEGINNING			D					 		Γ		NEUTRAL	ORM EXTRA		. —			
рау	TEAR	MONTH	DAY	GALLONS FILTERED	TOTAL	CHLORO- FORM	ALCOHOL	ETHER INSOLUBLES	WATER	ποτΑι	шемпе	ABOMATICE	OKYPES ATED CORPOURDS	LOES	WEAK ACIDS	STRONG ACIDS	BASES .	LOSS
12 9 5 1 13 5 2 10 5 3 10 5 4 7 5 5 6 5 6 9 5	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	11 12 1 2 3 4 5 6 7	19	3833 4930 4440 3863 36342 4815 4890 4500 4725 4881	120 125 182 233 182 135 170 158 131 188 152	40 38 53 75 55 55 62 55 43 47	80 87 129 158 127 82 108 103 88 141 103	1 1 0 2 1 3 2 2 3 2 2 2	10 9 12 17 12 14 14 19 11 12	13 12 18 23 12 15 17 14 12 13	1 1 1 2 2 2 2 2 2 1 1 1	1 2 2 2 2 3 3 1 2 2 2 2 1 1 1	9 13 18 15 10 10 12 10	1 0 2 1 1 2 0 1 1 0 1 0	4 5 6 10 4 7 6 5 5 5	3362364344	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 7 13 16 13 18 17 11 9 12 12

7709-20-69 E 11 E7 WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RESULTS IN MICROGRAMS PER LITER

STATE

MONTANA

MAJOR BASIN

MISSOURI RIVER

BUD BASIN

YELLOWSTONE RIVER

STATION LOCATION YELLOWSTONE RIVER M30 NEAR

SIDNEY, MONTANA

DATE C	F 84	HPI E			- FD	TRACTABL						CHLOROF	ORM EXTRA	ACTABLES				
ALCO TROVIN		D	$\overline{}$									NEUTRALS						
БАУ	TEAR	номин	DAY	BALLONIA FILTERED	TOTAL	CHLORO- PORM	ALCOHOL	ETHION	WATER SOLUBLES	TOTAL	шемпо	ABORATICE	COLTUIN ATIED COMPOUNDS	LOSS	WEAK ACIDU	STRONG ACIDS	BASES	Loss
4 6 5 4 6 5 7 6	59 59 59 59	4 5 6 7 8	15 12 16 15 18 18		80 69 80 52 105 129	20 16 30 16 30 30	60 53 50 36 75 99	1 0 1 1 1	3 4 3 6 7	11 6 9 7 11 14	2 1 1 2 1 2	2 1 1 1 1	004 POURDS 7 4 6 4	0 0 1 0 1	2 2 3 2 4	1 1 2 1	0 0 1 0 1 1 1 1	2 3 6 2 6 4

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ARKANSAS

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI

EUB BASIN

ARKANSAS RIVER-VAN BUREN TO MOUTH

STATION LOCATION ARKANSAS RIVER M44.5 AT

PENDLETON FERRY. ARKANSAS

DA 140	ATE		тил	DISSOLVED				OAMEN	DENAMED										
HE AS	\neg	<u> </u>	(Degrees Cardy rada)	DXYSAN mg/l	p#1	B O D ■ 2 /I	C O D ■g/l	1-HOUR	24-HOUZ	AMMONIA- HITEOGEN mg/l	CHLORIDES and /I	ALKALINITY ===/I	HARDMESS mg (COLON	TUESHOHY (seeds seeds)	EJUATES Pag 1	PHOSPHATES Hg/I	DESTOLVED FOLIDS TOTAL	COLPOINS per 100 mil
4 2 2 5 1 5 5 2 5 6 6 6 2 2 7 7 7 7 2 2 8 8 1 1 8 8 9 9 1 2 9 9 1 2	9630741852963974073074	55555555555555555555555555555555555555	14.0 17.0 21.0 21.0 22.0 24.0 25.7 22.0 24.0 27.1 29.1 29.5 28.0 29.0 29.0 29.0 29.0 29.0 29.0 27.0 27.0	9.9 9.4 9.4 9.4 8.2 7.7 7.0 -2 6.4 8.1 6.5 7.6 6.6 7.6 8.9 8.2 7.7 6.6 7.6 8.4 8.2 7.8 8.2 8.2 7.8 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.1 7.8 7.8 7.8 7.9 7.4 8.0 7.4 8.0 7.6 7.8 7.8 8.0 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	1.8 2.3 8.8 1.9 2.5 3.3 2.0 3.3 2.4 1.7 2.3 2.5 2.5 2.4 1.7 2.3 2.5 2.5 2.5 2.6 2.7 2.7 2.8 2.7 2.8 2.7 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	20.24 48.17 19.72 20.34 10.31 16.11 25.47 12.74 25.27 12.74 27.21 29.24 26.00 10.00	2.2 2.9 2.2 2.7 2.7 2.7 2.2	4.1	1.2 2.1 .0 3.1 3.4 1.5 9.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	80 44 64 160 230 94 1188 90 134 86 81 40 196 134 50 67 210 149 135 200 155	52 58 56 64 51 80 72	134 90 106 190 106 174 160 152 138 132 168 170 184 174 110 98 128 130 208 224 256	200 40 700 100 150 130 45 35 280 150 90 25 180 23 50 45 55 64 50	112 306 144 132 276 348 103 38 309 372 360 156 98 320 166 62 880 128 258 1620 310 429 768 345 345 345 345 345 345 345 345 345 345	40 12 37 79 47 59 34 45 45 45 47 30 49 21 113 13 19 20		268 1451 569 3205 3519 3702 4702 4702 4702 4702 4702 4702 4702 4	7500 9100 9100 17000 72 - 6200 - 26000 1100 - - 15000 8000 - 2300

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ARKANSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

ARKANSAS RIVER, TULSA TO VAN BUREN

STATION LOCATION ARKANSAS RIVER MEAR

FORT SMITH ARKANSAS

DA OF SA	ni.			DISSOLVINO				GEORGE	DEMAND	AHMONIA.				coros	TURBLIDITY	BUUATIS	PHOSPHATES	TOTAL	COLIFORMS
		4	TEMP Dogress Candigensis	DITTORN DITTORN mg/I	Hin	■ O D /I	= 0 D = 0 /I	1 HOUE	24-HOUS ==g/l	HOTHOUGH mg/l	CROUDES =q/I	AUXALIMITY =g/l	HAIDNEE	(corps majes)		3 /I	= /I	PHISOLVED BOUND Mg/I	per 100 mi
8 1 8 2 8 3	4 1 1 1 1 1 1 1 1 1	59 59 59	30.0 30.0 28.0 28.5 24.0 28.0 24.0	7.7 6.8 7.6 6.5 10.1 10.7 5.8	8.1 7.5 - 8.3 8.6 8.6 7.6	1.4 2.2 1.4 2.7 4.2 5.2 2.3	18-2 24-4 14-5 36-1 16-5 17-4 18-4	2.6 1.3 2.0 1.7	7.9 4.6 6.9 6.4	7.9 2.7 1.8 2.3 2.4 .6	136 170 285 365 245 195 340	124 132 140 116 94	226	150 40 40 30	110 212 276 2000 150 49 3840	46 38 62 60 27 3		479 473 644 775 534 509 717	1100 18000 - - 10 2300 3000
			!																

STATE

OKLAHOMA

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

HAJDR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

ARK. RIVER, KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER NEAR

PONCA CITY, OKLAHOMA

	DATE		TRIAF	DEMOLVED				CHEAT											
HUMON	ž	¥	(Dayron (Dayron Canthrody)	CXTYMEN	144	■ 0.D ==/1	== 2 /1	1-HOUR	24-HOUR mg/l	AMMONIA- HTTDOWN	CHLOSTON mg/l	ALEALMETY mg/i	HARDNESS mg/l	COLDE (heate subs)	RUMADITY (code make)	EAJFATEI ■g/I	PHOSPHATEL	TOTAL DESPOLVED SOLIDS mg/l	COUPONE per 100 mi
10	27	58	_	_	7.5	_	-			_	399	213	392	12	105	200		2870	
11	3	50	_	-	8.0	_	-	-	_	_	407	215	442	15	20	194		1110	
11	17	58	-	_	7.2	-	-	-	-	_	362	202	354	22	150	198	i í	1010	
11	24	58	-	-	7.5	-	l ⊣	-	-	-	363	202	394	11	67	168		972	l
12	1	58	-	-	7.5	-	-	-	_	-	406	218	406	12	5	172	1	1060	
12	8	58	-	-	7.6	-	3 • 2	-	-	-	421	226	454	12	5	226	1	1230	
1	6	59	_	-	7.5	-	1 1	-	_	-	520	268	621	7		430	1	1740	
1	12	59	-	_	7.5	-	-	-	-	-	590	237	500	6	55	335		1480	
1	20	59	-	-	7.4	-	~	-	-	-	365	212	430	5		235		1240	
1	26		-	-	7.5	-		-	-	-	479	226	488	5		285		1510	
2	2	59 59	-	-	7.6 7.4	-	1 7	-	-	-	436	236	492	6	58	310		1470	
2	23	1 1	-	-	7.4	_]	_	_	-	463	236	476 498	6 9	73	243	l i	1440	
2	23		_	-	7.5	_			-	_	390 402	334	498	6	141 85	320 33 5	l	1410 1480	
3	9	59	_	_	7.9	_	13.8	_	_	_	375	208	522	10	60	336	l	1510	
3	17		_	_	8.1	_	13.9	_	_	_	380	186	488	12	41	290	l	1590	
3	23	59	_	_	7.6	_		_	_	_	395	196	496	10	5	302	!!!	1530	
3		59	_	_	7.2	_	_	_	_	_	169	170	316	17	1100	162	1 1	790	
4	6	59	_	_	7.8	_	I _	_	_	_	371	200	500	15	70	316		1350	
4	20		_	_	7.2	_	_	_	_	_	289	165	372	20	78	210		974	
4	27		_	_	7.2	_	_	_	_	_	332	178	410	15	8.6	240		1130	
5	4	59	_	_	7.3	_	_	_	_	_	381	148	364	10	110	275		1190	
5	10	59	_	_	7.6	_	_	_	_	_	240	150	232	22	300	102	1	598	ļ
5	25	59	-	_	7.6	_	-	_	_	-	231	157	282	20	300	172		862	1
6	1	59	_	_	7,6	_	_	_	_	-	189	162	256	22	750	140		822	1
6	8	59	_	_	6.8	_	-	_	_	-	295	164	312	20	180	198		958	
6	15	59	_	_	6.8	-	_	_ '	-	_	328	176	352	15	120	220		1090	
6	22	59	-	_	6.9	_	-	-	_	-	395	134	332	15	44	230		1150	
6	29	59	-	_	6.5	-	-	-	_	_	250	168	268	18	245	160		890	
7	13	59	-	_	6.9	-	-	-	-	_	200	144	236	25	450	11 =		764	
9	15	59	25.0	-	8.4	-	-	-	_	-	453	100	231	6	72	172		1160	
9	21	59	25.0	-	8.3	-	-	-	-	-	4.7	80	224	6	90	180		1040	
9	28	59	22.0	_	7.9	_	-	-	-	-	179	94	138	_	1000	_		-	
													 						I
													i 						

STATE

KANSA5

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

ARK. RIVER, KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER AT

COOLIDGE, KANSAS

	DATE		три	DESIGNATIO				CHLORINE	DEMAND	AMMONIA-	CHORDE	ALKALINITY	HAIDNISI	COLOR	TURNADITY	BUATE	PHOSPHATES	TOTAL DIMOLVED	COLFORNI
нцы	ă	T.	(Dagress Carrigments)	0307648H mg/1	p#H	# 0.5 	<u></u> /I	I-HOUT mg/I	24-HOUE mg/l	HITEOGRAPH HIE/I	≈ g/1	 /1	 /1	jacado wollej		~	- /'	POLIDS POR/I	per 100 <u>ml</u>
10	6	58	_	_	7.6			_	_	-	116	204	1290	1 -	38	1430		3160	-
10	13	58	18.3	_	5.2	-	-	-] -	-	120	200	1320		36	1500 880		3340	-
10	20	58	15.0	_	5.2	-	-	-	-	-	47	182	693	5 8	190 67	1260		1770 2390	_
10	27	58	8,2	_	8.2	-	-	-	-	-	50	197 171	841 1390		37	1740		3130	_
11	4	58	5.0	-	5.2	-	7	-	-	_	124	228	1300	Ī	20	1840	1	3590	_
11	10	50		-	7.9	-	_	_	_	_	143 139	240	1100	B	37	1840		3670	_
11	24	54	3.0	-	7.9	_		_	_	_	144	246	1430		52	1600		3650	_
12 12	2	58	5.0	- 1	5.1	_		_	_	_	148	268	1370	7	29	1610	1	3890	-
12	16	54	6.0		8.1	_	_	_	_	_	119	258	1170	5	97	1640		3790	-
12	22	5	6.0	_	8.2	_	1]	_	_	_	147	236	1230	5	36	1640	1	3730	_
	30	58		_	7.8	 	_	_	-	_	137	226	1140		27	1590		3480	-
ī	6	59	.0	-	7.8	-	1 -	-	-	_	170	284	1420		5	1820		4330	<u> </u>
1	13	59	. 0	-	8.2	-	-	-	-	_	143	250	1500	1	51	2120		3680	-
1	19	59	5.0	_	8.2	-	1 -	-	-	-	143	266	1350	5	105	1600		3920	-
1	26	59	-	-	7.6	-	-	-	-	-	143	254	1300		74	1920		3730	-
2	2	59	.0	-	8.1	-	-	-	_	-	171	270	1770	4 5	5 77	2100 2280		4420 3990	-
2	9	59	.0	-	5.2	i -	1 7	-	i -	-	147	260 255	1560 1470	l .	65	2040	[3870	[
2	16	29	4.0	-	8.2	-	7	_	-	-	149 147	234	1370	1	35	2160	1	3980	_
3	. 3	59	2.0	-	B.2	-	1]	_	_	_	137	250	1340]	100	2220	1	3800	_
3	16 23	59 59	2.0 15.0	_	B • 2	_	16.6		_	_	147	218	1560		36	2320	1	4320	i –
3	31	5,7	10.5	_	8.2	_	ן ייין	_		_	146	216	1550	1	28	2300	J	4140	- ا
- A	6	-	13.0	_	8.2	_	4	_		_	140	202	1390	1	50	2140		3670	-
	13	59	12.0	_	8.1	-	۱ ـ	-		_	135	220	1420	7	70	2480		3490	_
	20			_	7.7	-	1 4	_	-	_	128	193	1140	3	340	2240	1	3410	-
	27		_	_	7.6	_	-	-	_	-	75	196	776	7	220	1180		2250	-
5	4	59	13.5	-	8.2	-	} ⊣	-	-	-	61	188	732	5	175	1120	i	2010	-
5	11	59	17.0	-	B • 2	-	-	-	-	-	_	_	-	-	-	-		_	-
5	18	59	21.0	-	8.2	-	1	-	J - J	-						-		277	-
5	25	59	-	-	7.6	-	41.5	-	-	_	97	202	1040	6	123	1480		2720	-

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

KANSAS

MIZAS ROLAM

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

ARK. RIVER. KANS-COLO LINE TO TULSA

STATION LOCATION ARKANSAS RIVER AT

COOLIDGE, KANSAS

DATE OF SAMPL		THAT	DESCRIPTO				CALORNA	DEMAND										
	77.64	Degrees Configurated	COXTRACTI	p#I	ELO D mg/l	==/1 COD	1-HOUR	34-HOUR mg/l	AMMONIA- HTTLOUIN mg/l	CHONDS mg/l	ALVALENTY ==g/l	HARDNES mg/l	(DIOS	TURNOTTY	RAJATE mg/l	PHROSPHATES =1/1	TOTAL DiffSOLVED SOLICE SHE/I	COLFORMS per 100 mi
6 15 6 22 6 29 7 6 7 13 7 20 7 27 8 3 8 10 8 17 8 24 8 31 9 14	55555555555555555555555555555555555555	24.5 		8.1 7.6 8.2 8.1 8.4 7.8 8.1 8.2 8.1 8.2 8.1						125 139 65 67 79 80 65 54 75 69 76 73 80 78 79 136	166 334 194 188 174 168 328 174 148 166 178 180 160 158	1200 1400 184 1060 1010 900 712 848 788 854 740 1000 896 888 1300	5 5 7 4 3 17 5 5 2 - 4 5 2	5 900 525 253 260 1200 74 85 140 240 175	1880 1680 1090 1150 1300 1400 1340 1220 1240 1340 1340 1260 1720		3360 3650 2150 2240 2600 2290 1700 2400 2470 2420 2580 2580 3720	

STATE

ARIZOMA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

YUMA. ARIZOMA

	DATE							CHLORNE	DEMANS	AMMONIA-		}			TURNADITY	ELVATE	PHOSPHATES	TOTAL	COLPONI
XLL MON	DAY	- A-CV	TEAP (Despense Canadagraphia)	DESPONATE EXTERNAL ENT./1	µ. H	LO L . ⇔ _/i	=4./1 =4./1	1-HOUR	24-HOUR	NITROBEN mg/l	oloini _{mg} /i	ME/I	HAEDHERS mg/l	colot	(posite smaller)	-	mg/I	DESPOLVED SOLEDS Eng/I	per 100 mi
10	6	50	24.2	-	7.8	•		_	-		106	150	332	-	25	_		-	730
10	13	50	23.2	-	8.0	-	\ -	-	-	-	90	140	320	_	27 25	-	1	_	460 1900
10	20	54	23.2	-	8.2	_	l ⊣	-	-	-	115 98	160	352 328	_	18	_	·	_	300
	27	56	22.0	-	1.2	-	1 1	_		_	106	150	332	_	28	_	1	_	230
11	3	54	22.2	-	7.6 8.2	<u> </u>	l J	_	_	_	96	144	324	_	23	_		_	340
11 11	10 17	54 56	20.5	<u>-</u>	8.2	_]	_		_	92	150	356	_	12	_		_	320
11	24	58	14.5	[-	8.2	_		_	_	_	98	174	330	_	15	-	1	-	1100
12	ì	5.0	12.5	-	8.2	_		_		_	76	146	332	-	15	-	i	-	560
12	5	50	15.0	} _	8.2	_	!	_	-	-	90	152	316	-	27	-		-	200
	19	59	12.5	-	8.2	_	l -	-	_ '	-	96	140	342	-	23	-		-	460
2		59	11.0	-	8.2	-	1 -	-	-	-	97	156	364	[-	25	-		-	50
Z	9	59	11.0	-	8.2	-	l ⊣	-	-	-	97	152	334	-	32	-	1	_	200
	16		13.0	-	8.0	-	-	-	_	-	92	150	322	_	20 25	_		-	280
		59	13.0	-	8.0	-	1 7	_	-	-	102	168	348 394	-	27	_		_	880 22 00
3	2	59	15.5	-	8.0	-	l ī	-	-	-	125 120	150 170	384	_	-	_		_	40
3	. 9	59	14.5	-	8.0 7.6	_	11.1	_	_	_	95	150	310	-	21	_	1	_	2500
3	17 23	59 59	15.0 16.5	<u>-</u>	7.8	_		_	_	_	107	160	322	_	25	_		_	2000
3	30		19.0		7.8	_	_	_	_	_	105	160	350	-	22	_	1	l –	900
4	6	59	19.0	_	7.8	_	13.0	_	-	_	98	154	360	-	26	-		- 1	-
	13	59	-	_	7.8	-	1	_	_	_	97	152	356	-	35	_		-	-
	20	59	21.0	_	7.8	-	-	-	-	-	97	162	326	_	-	_		-	-
4	27	59	20.5	-	7.8	-	-{	-	-	-	76	146	324	-	30	-		-	330
5	4	59	18.5	-	8.0	-	-	-	-	-	115	160	366	-	18	_		-	-
	11	59	23.0	-	7.8	-	-	-	-	-	124	160	356	_	22	-	J	_	90
	18	59	23.0	-	B, 0	-		-	- '	-	130	152	354	_	22 28	-		-	430
	25	59	21.0	-	7.8	~	1 1	-	-	-	107 100	140 142	340 324	<u> </u>	19	_		_	4300 380
6	1	59 59	24.0 25.0	-	7.8 B.O	-		_	_	_	128	150	354		22	_		_	430
	15	59	20.0	_	7.8	_		_		_	135	108	354	_	22	_		_	7500
	22	59	28.5	_[8.0	_		_	_	_	127	144	324	_	28	_		_	750
		59	26.5	_	7.8	_	4	_	_	_	130	150	334	-	21	_	į.	_	120
7	6	59	27.5	_	8.0	-	-	_	-	-	118	134	316	_	24	_		_	1600
7	13	59	-	-	7.8	-	-	-	-	-	110	134	322	-	_	-		-	-
	20	59	-	- (7.8	-	-	-	-	-	115	144	320	-	22	-		(-	800
7	27	59	29.0	-	7.8	-	-	-		_	119	136	374	-	_	_		-	160

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ARIZOMA

MAJOR BASIN

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

YUMA, ARIZOMA

	DATI		TEAP	DOMOLVED				CHLOROA	DEMAND										
HTHOM	ž	YILAR	(Degran	03(YWEN ===/1	Hing	L O.⊅ /I	<u></u> 4/I	1-HoLE ===/1	24-HOUR mg/l	ARMONEA- HETEDORN mg/l	mg/l	ALEALENSTY ME/I	HARDNESS Pag/I	(COLOR 		PULIATES mg/l	PHOSPITATES ===/1	TOTAL DESOLVED SOLIZE Reg/I	per 100 mil
8 8 8 9	3 10 17 24 31 8 14	59 59 59 59 59	31.0 30.0 28.0 26.5 27.0 27.0	11111	7.5 7.3 8.2 8.0 8.0 8.0 8.0		27.0	-		-	115 157 153 142 130 160 137 136 137	132 160 140 140 150 146 140	284 340 316 314 328 340	- - - - -	45 35 32 - - 34				1600 1800 170 730 100 100 300 15

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE CALIFORNIA

MAJOR BASIN

COLORADO RIVER

EUE BABIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER ABOVE

PARKER DAM: ARIZOMA-CALIFORNIA

DATE OF LAND							CHOOM	DENLAND	AMMORIA-							PHOSPHATES	TOTAL	
A A	_	TSAP (Dagment Constiguarie)	DESCRIPTION IN THE PROPERTY OF	p#H	■0 D = <u>=</u> /1	/I /I	1-HOUR	14-HOUE mg/l	HITEDORN mg/l	14 1 1 1 1 1 1 1 1 1 1	mg/l	HARDNESS mg/l	COLOR	TUBLIDITY	RULPATEI mg/l	- /1	POLIDE FOLIDE mg/I	Per 100 mi
10 1	. 51	23.9	-	7.6	_	-	-			77	111	307	7	-	234		646	-
10 8	54			8.0	_	1 -	-	-	-	72	115	297	5	- -	214	1	614	-
10 15	i 54		l -I	7.6	-	34.3	-	-	-	74	114	316	. 8	-	216 122	1	628 632	_
10 22	: 5		-	7.4	-] -	-	-	-	72	115	325 321	17 11	5	122		580	
10 29			-	7,7	_	1 1	-	-	-	67 74	119 114	523	1.		134	{	40	-
11 5			-		-	33.5	_	_	_	75	112	330	8	5	125	i i	568	
11 12 11 20	54 51		-	7.8 7.8	-	1]	_	-	_	75	112	308	5	5	134		576	_
11 20 11 26	3		-	7.6	_	l]	_	-	_	72	120	315	5	5	234		634	-
12 20			_	7.2	_	5.9	_	[-	_	70	119	301	6	5	237		670	-
12 10			-	7.6	_	1 7.1	_	_	_	71	122	306	5	5	248		582	-
12 17			-	7.5	_		-	_	-	49	120	320	5	5	238		568	-
12 24	. Si		-	7.8	-	-	-	_	-	6-8	130	386	6	5	237	<u> </u>	568	-
12 31		12.2	-	8.0	-	-	_	-	-	68	118	301	8	5	245		574	
1 7	5	11.1	-	7.5	-	⊣	_	-	-	70	121	315	6	5	310		625	-
1 14		11.1	-	7.6	-	11.0	-	-	-	70	123	304	6	5	315		625	
1 21	. 59		-	7.5	-		-	-	-	6-8	124	301	5	5	320]	656	-
1 28			-	8.0	-	9.4	-	-	-	71	124	396	5	5	315	1	814	
Z 4			-	5.1	-	1 -	-	-	-	67	126	302	<u> </u>	2	200		640	
2 11			-	7.9	-	! ⊣	-	-	-	69	124	312	5	2	265		626	
2 25			-	7.9	-	1	-	-	-	70	126	312	5	2	252	j :	630	'
3 4			-	-	-	7	-	- [_	46	129	324 320	5	5	262 252	1	622	
3 11			-	-	-	7	-	-	-	64 66	132 128	328	5	- 1	260	1	_	
3 18			-	_	_]	_	-	_	65	125	304	5		252		_	
3 24			_	7.5	_	l J	_	_	_	69	125	320	3	<u> </u>	260		646	
4 7				7.8	_]	_		_	64	120	319	ĺ	Į,	252		626	
4 14			l I	7.7	_	1]	_	_[_	84	128	316	3	5	30 8		626	1 .
4 22			_		_	_	_	-1	_	68	130	340	31	5	248		630	١.
4 29	59		-	8.1	-	4	_	_	_	6-5	132	340	2	5	278]	664	
5 6			_	7.6	-	4	_	-	-	6.8	130	314	4	5	258	1	640	
5 13			-1	7.8	-	1 4	-	-1	-1	6.8	130	316	7	5	273		660	-
5 20	39		_	-	-	1 -1	-	-1	-1	75	135	308	11	-	265		702	-
5 27			-	-	-	-	-	-	-	68	130	312	7	5	285		670	
6 3			-	7.6	-		-	-	-	70	130	314	2	5	265		684	-
6 11			-	8.0	-	-	- [-1	-1	62	133	312	4	5	265	[672	-
6 15			-	7.9	-	-	-		-	65	129	308	3	5	260		660	-
6 22			-	7.4	-		-	-	-	77	132	308	4	5	251		660	-
6 29	59	27.8	-	9 - 2	-		-	-	-	70	125	312	3	5	284		706	-

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

CALIFORNIA

MAJOR BASIN

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER ABOVE

PARKER DAM, ARIZONA-GALIFORNIA

	DATE		Т	DUSCLVED				DEOFDE	DEMAND										
E	DAY	YEAR	(Dagress Contigrado)	DOCYMEN mg/l	pH.	■ 0 0 ■ ■ /1	C O D ==g/l	1-HOUR mg/l	34-HOU2 mg/l	AMMONIA- MITEOGRAPI mg/l	CHLORIDE mg/l	ALEALDRITY	HAEDHES mg/l	COLOR	TURNIOTTY (reads seeke)	SULATE mg/l	PHOSPHATES mg/l	TOTAL DISSOLVED SOLIDS mg/!	COLPORALS per 100 pd
7 7 7 7 8 8 8	15 22 29 6	59 59	27.3 28.9 29.4 27.8 29.4 28.9 28.9 28.9 27.2 27.2		7.4 B.B B.O 7.8 B.Z 7.9 7.7 B.O - B.4 B.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B • 4		-		77 79 78 76 77 73 65 72 66 72 66	130 130 130 132 127 124 125 134	296 292 288 300 308 292 300 308 304 312	3 3 0 0 4 4 - 3 0 2 - 2 2 2	5555 - 555	264 276 292 252 294 264 249 252 238 240		728 672 664 672 640 636 644 656 636	

NEVADA

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

COLORADO RIVER

SUE BASIN

LOWER COLORADO RIVER

STATE

STATION LOCATION COLORADO RIVER NEAR

BOULDER CITY. NEVADA

	MATE							CHARM	DENAMO	AMMONIA								TOTAL	
TE LEGIS	à	<u> </u>	This (Degrade Canadarada)	DOST/BEBH DOST/BEBH HELP/I	ī	LO 0 =4_/l	<u></u> √1	1-Hour mg/l	34-HOUE mg/l	HTTEOSEH MIJ/I	mg/i	ALKALIMITY mg/l	HARDAMIN mg/l	(COLÓR	TURNEDITY	■ 7 1	PHOSPHATES ===/I	DAMINOLVED SOLIDS mg/l	COLPOSMS
10	7	58	16.0	6.2	7.9	_	-	2.1	4.2	.0	58	114	298	_	-	202		•	*1
		55	16.0	6.1	8.0	-	7.1	2.1	4.6	.0	56	116	300	-	-	202		-	#1
		58 58	16.0 16.0	6.2	7.9 8.0	_	1]	1.0 1.0	.0	.0	56 58	116 114	306 294	_	_	201 204		_	#1 #1
11		58	15.0	5.9	7.9	_	7.2	1.0	.0	.0	56	114	294	-	_	203		520	1
		58	15.0	6.0	7.9	-	1 177	1.0	-	• 0	56	110	296	-	_	208		552	*î
		56	14.5	7.1	7.9	-		1.0	-	.0	66	112	302	-	-	204		546	*1
11		5 E	14.0	5.6	7.9	_	1 1	1.6	2.7	. O	56	114	294	~	_	21 4 20 9		606	#1
12		38	14.0 14.0	5.6 6.7	B. O	_]	1.3 2.1	5 • 2 4 • 8	.0	60 62	114 112	306 298	1		202		500	*1 27
		58	13.2	5.4	7.9	_	6.5	1.3	5.2	.0	58	116	300	-	_	204		_	-
12	23	58	14.0	5.2	7.9	-	1 4	2.3	5.1	.0	63	116	298	-	-	213		624	_
		58	14.5	5.6	7.9	-	1 1	1.3	3 . 2	• 0	58	116	294	-	-	214		-	_
1		59 59	13.0	5.5	7.9	_]	1.3	3.1	.0	56	116	29B	_	-	20 B		-	#1
		39	14.0	6.0	7.9	_	l	1.2 1.3	3.0	.0	56 58	118 112	304 312	_	_	213 213		682	1
		59	13.5	5.7	7.8	-	4	2.4	5.C	,0	60	116	320	_	_	204		600	1 3
2		59	13.5	7.7	7.9	-	l →	1.2	3.0	.0	58	116	320	-[-1	201		626	23
		59	13.5	7.3	7.9	-	' ┥	1.7	1.2	•0	60	112	320	-	-	206]	500	20
		59 59	14.0	8 1	7.9 7.9	-	7.2	1.2	1-1	• 0	68	114	308	-	-1	205		-	10
2 .		5 9 5 9	13.5	5.4	7.8	-	13.6	1.2	$\frac{1 \cdot 1}{1 \cdot 1}$. O	64 68	114 120	286 320	_	_	213 210		-	8
		59	14.0	5.4	7.8	-	17,1	1.3	1.1	.0	70	116	342	-	_	221		_	9 12
	- 1	59	14.0	8.2	7.9	-	4	1.3	1.1	. 0	6 B	120	310	-	-	226		_	34
		59	15.0	5.4	7.9	-	4	2.5	1.2	• O	72	120	316	-[-1	231		-	5
		39 59	15.0	5.4	7.8	-	╡	[.0	72	120	312	-	-	222		-	39
4	- 1	59 59	16.0	6.2	7.9	<u>-</u>		2.4	5.0 4.5	. O	70	116	312	-	-	244		500	39
		59	14.0	6.5	7.9	_ }]	2.4	5.2	.0	70 68	118	320 302	_	_	209 206		-	200
4	8 / 1	59	14.0	6.3	7.9	-	4	3.3	7.4	.0	72	114	308	_	_1	208		500	29 -
5		5 5	16.0	7.7	7.9	-	4	4.9	7.3	• 0	72	116	312	~	- 1	249			_
	- 1 -	59 59	15.0	6.5	8.0	-	4	-	• 0	, 0	72	116	308	-	-)	204		500	*2
		59	15.0 15.0	6.4 6.8	7.9 8.0	- 1		2.5	6.0	.0	78 72	116	306	~	-	197		-	*1
6		59	15.0	7.1	B.0	_	7	2.4	6.1	.0	68	112 112	300 292	-	_	200		_	*1
6	9 !	59	15.0	6.9	8.0	- 1	4	2.5	6.0	.0	66	108	296	_	_	203		_	*1 *1
	- 1	59	15.0	6 . B	B.0	-	4	2.5	5 . 2	.0	68	112	304	-1	-	204		_	*1
		59 59	15.0	6.7	7.9	-		2.5	6.4	.0	66	110	308	-1	-	203		- {	*1
		"	13.0	7.0	B.0		9 • 2	2 • 4	6.6	• 0	66	106	298	-	-	207		-	1

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEVADA

MAJOR BASIN

COLORADO RIVER

SUB BASIN

LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER NEAR

BOULDER CITY, NEVADA

	MII MARP	.	1755	DESIROLVED				Official	DEMAND					[
нежен	À	3	(Dageer Configurate)	CÓCYMBA mg/l	p#H	■ 0 D ■ 1	C.O D ■2/I	1- 12 ===/l	24-HOUR mg/l	AMMONIA HTTEORIN mg/l	CHLOROS =2/1	ALKALINITY mg/l	HANCHEN mg/l	COLOR (resis malis)	THEMSENTY (made smaller)	=g/l	PHOSPHATES	ROTAL DESOLVED SOLDS ====/I	COLIFORNIS per 100 ml
7 7 8 8 8 9 9	7 14, 21 28 11 11 125 1 15 229	59 59 59	16.0 15.3 15.0 15.0 15.0 15.0 15.0 14.5 15.0 16.3	7.06.7 6.7 6.8 6.6 6.5 6.5 6.4	8.0 8.0 7.9 7.9 8.0 7.9 7.9 7.9 7.9		15.1	2.5 4.4 4.9 2.5 1.2 4.9 1.1		.0	56 66 64 70	106 108 106 104 102 116 122 120 118 120	300 296 328 314 298 292 298 294 296 294 292	- - 0 - -		202 205 — — 207 206 203 207 200 211		500	6 *1

ATAC DRAS YTLLAUD SETAW

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

COLORADO

MAJOR BASIN

COLORADO RIVER

SUB BASIN

UPPER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT

LOMA: COLORADO

BA OF M	JI	.]						CHLORDA	DEMAND										
HE A	Т	2	TEMP (Degreen Configurate)	mat/)) He	1. 0.0 -1, /l	COD ~ •/1	1+10UR ===/1	14-HOUR 140/1	AMMONIA- NETBOORN mg/l	===/I	AUKALENTY ===/I	HARDHRES TO /I	COLOR Penie unitsi		= 2/1	MIOSPHATES	TOTAL DISSIDLYED SOUDY mg/I	Per 100 mg
10		50	14.4	6.8	5.3	1.5	_		_	17.2	142	190	702	_	4 3	630		-	130
10 2	- 1	58	11.1	7.8	8 . Q	1.9	1 -	_	-	22.7	119	228	740	-	44	705		1620	200
		34	8.9	7.6	8.0	-	1 1	-	-	21.1	112	201	690	-	23	496	1	2240	130
11 1		58	7.5	B.0	8.1	1.1	1 4	~	-	6.6	134	201	546	-	34	720		1340	260
11 1		58	3.3	9.2	8,1	2 • 2	-	-	-	16.8	131	207	572	_	28	452		1260	190
11 2		55	2.2	9.2	8.1	1.B	-	-		25.0	126	250	584	-	24	520		1185	240
		55	. 6	9,5	5,1	1.9	7	-	-	11.6	156	191	536	-	10	496		1151	250
		58	2.2	9.5	8.1	1 - 2	1 7	~	-	34.0	135	186	514	_	2 B	452		1147	216
12 1		58	. 6	10.1	8.4	1.5	7	-	-	74.0	156	177	480	_	21	226	1	1097	-
12 2		50	.6	10.1	8.2	2.5	1 7	-	-	40.0	150	189	512	-	19	420		1110	-
		59 59	•0	10.1	0.0	2.5	1 7	-	-	44.0	199	202	576	-	40	520		1295	230
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		59 59	. 6	9.9	8.1	1.0	1 7	-	-	20.8	166	176	456	-	33	440		1091	70
1 2		33	.6 1.1	10.1	0.0	2 - 3	1 7	-	-	10-4	182	165	428	-	40	340		1012	120
		59	2.2	9 . 8	8.1 8.0	2.2	1 7	-	-	18.8	184	172	444	-\	43	380		1053	110
		5 S	2.2	9.2	8.2		1 7	-	-	16.8	190	172	438	-	20	440	1	_	76
2 10		59	5.6	1	8.1	2.5	J	-	-	10.2	186	164	432	-	23	420	1	1036	340
	- 1	59.	6,6	9.5	B. 2	1.3	1	-	-	26.4	211	169	423	-	89	368		1037	110
		59	4.4	9.5	5.1	2.2	1 7	-	-	25.0	177	154	414	-	19	406		~	25
3 16	- 1	59	3.3	10.1	8.3	2.2	1 7	-	_	16.4	101	172	453	-	15	440		1079	28
3 2		59	7.7	4.9	6.1	3.4		-	-	11.6	184	167	441	-	13	430		1063	_
4 6		59		6.2	B. 1	5.0]		[22.4	174	162	440	-	17	412		1011	-
4 20		59	9.3	8.0	8.2	4.6]	_	-	19.6	179	178	518	-	54	496		1229	-
4 27		59	13.3	7.5	8.3	2.7		_	-	20.0	150	158	♦50	-1	70	420	1	1070	250
5 11		59	12.2	7.0	7.7]		-	11.6	48	165	470	-1	220	404		1274	150
6 1		59	7.8	7.6	7. B	2.6	1	-	_		75	118	264	-	190	184		541	85
6 22		59	19.0	6.2	7.7	2.5	1	-		10.0	64	87	166	-	89	80		455	56
7 6		59	17.0	6.6	7.2	5.4 5.6]	_	-	10.1	60	86	168	-	310	82		447	44
7 20		59	23.0	5.9	7.9	2.1	1	- 1	-	11.0	-	-[-	-	-	-	l	-	34
7 27		9	23.0	5.0	7.9		7	-	-	12.8	-1	-	-1	-	-	-1	}	-	#2
6 10		59	22.5	5.9	7.9	3.9]	_	-	7.6	-	-	-	_	-	-1	l	-	53
9 8		59	20.0	6.8	8.0	J.,	J	_		6.8	-	-)	-1		-	-	ľ	-	-
9 14		59	19.5	6.6	7.B	1.6]	_	_	3 · 2 23 · 6	-	-1	-	-	-	-		-	340
9 21		5 9	17.0	7.0	7.9	1.4	J	_	-1	23.0	-	100		-		-		-	-
9 28			12.5	7.4	B.1	1.8]	_	- 1	13.2	128	190 200	690	-	175		}	-	-
						•••	7	-	-1	13.2	120	200	650	-	142	€20	1	-	-

STATE

OREGON

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

PACIFIC MORTHWEST

SUE BABIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER M552 AT

CLATSKANIE, OREGON

	DATE SAMP	.	THE	DOMOTAM				CHOKN	DMAMO										
E	à	3	(Degrees Configurate)	COTTORN mg/l	på4	L O D ■ 2/1	COD ■■/I	1 HOUR	34-HOUE	AMMORIA. HTTBOORN Hg/l	CFLORIDE mg/l	ALKALINITY ===/1	HARDNER mg/l	COLOR	TVENDITY (code subs)	EDUATES -y/I	PHOSPHATES	TOTAL MESOLVED MOLDI MIS/I	COLLFORN
10		58	15.9	-	7.4		_	_			5	70	B4	15		30		134	
	20	58	15.5	-	7.8	-	-	-	_	-	5		143	1_	_	_		* -	150
10	21	58		9 • 1	7.1	• 6	29.1	1.3	2,8	•1	6	63	74	14	2	2		-	
10	27	58 58	13.3 12.5	-	7.6 7.4	-	7	-	-	-	7		67	-	-	_		-	
11	3 10	38	11.6	_	7.4	_	_	_	-	-	5		80	l -	-	-		-	
1	19	5 B	9.2	l []	7.3	_]	_	-	-	5		63	7	-	_		92	
	25	5 B	712	11.0		1.4	14.7	.4	1.9		5		44	9	20	12		54	
2	1	5 B	_	-	7.5		1 1	-	1.7		4		35 62	27 11	16	5)	-	480
2	8	5 B	7.2	_	7.5	_	-	_	_	_	4		72	15	26 5	20 17	ì	-	
2	15	5 B	7.0		7.4	_		_	-	_	4		48	ĺ	3	11		_	
2	23	5 B	5.8	11.3	7.6	2.4	13.3	. 4	2.0	.2	6		52	18	14	-		103	
. 2	29	58	-	-	7.3	-	-	-	-	_	4		53	io	26	4	(102	
1	5	59	5.0	-	7.3	-	-	-	-	-	l –	5 z	_	_	_	_	1	_	
1	12	59		-	5.9	-] -	-	-	-	7		40	11	105	18	Ĭ I	112	
1	19	59	5.8	-	7.4	-	-	-	-	-	-		51	-	-	-		-	
1	26 27	5 9 5 9	6.5 6.1	12.2	7.2 7.2	3.0	-	_		-	4		47	6	46	14		120	
1 2	2 / 2	59	6.8	12.2	7.4	5. 0]	• 3	1.9	-	5		46	80	35	-			170
2	9	59	-	[-[7.2	_	l]	_	_	6	-	42	10	61	2		76	
2	16	59	5.0	l – l	7.4	_	_		_	_	l -	54	54	1 -	_	_		_	
2	24	59	5.5	- 1	7.4	_	_	_	_	_	i -	_	54	1 -	_	_		_	
3	2	59	6.2] _]	7.8	_	_	_	-	_) _]	1 -	<u> </u>	_	}	_	1
3	9	59	6.2	12.0	7.7	2 • 3	3.7	1.1	2.5	.0	4		70	16	13	20)	113	200
3	16	59	7.3	l -l	7.9	_	-	_	-	-	-		_	-	_			_	
3	23	59	-	-	7.4	-	_	-	-	-	-	56	62	-	-	-		_	
3	30	59	8 • 0	-		_	-	-	-	-	-	1	l –	-	(-	_		-	
4	28	59	10.3	10.8	7.2	1.8	11.3		1.2	-	4	1	59	18	11	15		120	390
5	11	59	11.3	-	-	_	-	-	-	-	-		-	-	-	-		-	
5	18 26	59 59	12.9	9.0	7.2	_	1	1 .											
6	1	59	12.8	7.0	7.5	• 0	10.4	.8	1.6	• 7	4		36 80		7	11		170	160
6	9	59	14.6	_	7.2	_	-]	1 -		4		48	_	-	_		_	
6	15	59	14.B	_	6.9	_]]	_	-	4		44	_	_	_		_	
6	22	59	15.8	_	7.3	_	_	_	_	_	2		50		_	_			
6	29	59	16.9	-	7.1	_	9.5	_	_	-] 3		40	1	_	_		_	290
	30			11.1	7.1	2.1	-	1.5	.0	4.6	Ž		52	12	1	9		53	
				}													1		ļ

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

OREGON

MAJOR BASIN

PACIFIC NORTHWEST

BUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOGATION COLUMBIA RIVER M552 AT

CLATSKANIE, OREGON

DAT OF EA		ТИР	DESCRIVED				CHOUNE	DEMAND	AMMONEA								TOTAL	
F A	•	Degrana	OXTEM!	,	≅oD mg/l	con	1-HOUT ==_/1	34-HOUE	NITEDOEN	C-Lotion	ALKALENTY	HARDNESS mg/l	COLOR	(mainty	#UVATE	PROPRIATE	TOTAL DESCUED SOLEDE sug/1	COLIFORNI per 100 mi
7 1 27 7 7 28 3 1 2 4 8 3 1 4 9 2 2 9	1 7	9 18.0 9 19.7 9 19.2 9 19.1 9 20.0 9 20.1	9.5	7.4 7.4 7.4 7.3 8.0 7.9 7.9 8.0 7.4 7.8	1.4	11.3	-	1.5	•6	2 3 - 7 3 4 9 5 4	- 43	60 60 - 58 68 60 - 68 63 64	- 2 10	- 3 - - -	18 17 		70 70 77 78 96 90	2900

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

OREGON

MAJOR BABIN

PACIFIC MORTHWEST

SUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

BONNEVILLE: OREGON

	DATE		THE	DEMOLVED				CHOM	DESCAND										
HTHOM	¥	ALEAN.	Dayres Cardyresis	DOCTORN mg/l	pět	L O D = g/l	= 4/1	1-HOUR mg/l	24-HOUE	AMMONIA- NETRORIN mg/l	mg/l	ALFALDMITY	HARPENS mg/l	COLOR -u-i-u-i-u	TURNIDITY (name units)	HIATE	PHOSPMATES mg/l	TOTAL DESOLVED SOLIDS POLIDS	EDEFORMS per 100 ml.
10	6	58	20,0	8.5	8.1	.9	5.1	. 7	2.3	2.3	5	73	77	1	2	20		131	#1
10	13	34	15.0	9.5	8.0	1.4	8.q	. 5	2.0	2.5	5	72	78	0	•	21		135	2
10	20	55 58	14.5	9.3	7.8	1.2	5.4	. 2	2.0	2 • 4	5	74	81	0	0	29		136	60
10 11	27 3	56	12.5 12.0	10.2	8.0	1.2 .9	5 · B	. 2	1.7 1.4	2•2	4 5	67	75	3 0		17		130	31
11	10	58	11.5	10.2	8.0	.7	5.0	.7	4.3	2•2 2•9	4	69 64	82 75	5	1 44	18		128 121	90
11	17	58	9.0	10.7	7.B	9	5.a	. 5	3.9	4,0	3	73	/2	ة ا	1	22 23		174	15
īī	24	58	8.0	10.4	7.8	1.0	4.9	2.5	5.2	3.0	4	5 .	64	,	ا ا	10		143	
12	1	58	5.9	11.8	7.8	• 9	5 B	1.4	4.3	2.9	4	66	74	ż	4	20		155	90
12	8	58	5.5	12.0	7.9	1.7	10.5	1.1	4.0	4.1	4	63	64	5	10	1 6		132	50
12	15	58	4.5	12.3	7.7	• 9	13.1	. 5	1.5	1.8	4	63	64	5	15	13	Ì	131	-
12	22	58	5.3	12.0	7.7	. B	11.4	1.1	2.7	2.5	4	61	58	10	5 B	16		145	-
12	29	58	5.6	11.3	7.7	• 6	2 • 4	- 4	1.1	2.0	2	54	58	5	10	15		132	
1	. 5	59	2.1	12.8	7.7	. 4	6.0	• 7	1.4	2.0	*	59	70	5	5	18		111	42
1	12	59	4.2	12.2 13.0	7.8 7.7	1.6 .9	3 · 9	• 4	1.1	2.1	4	55 64		•	1 10	٠,	•		
1	19 26	59 59	3.9 4.5	12.0	7.7	.7	3.6	. 4	1.3	1.9 2.6	5	57				1.		110	200
2	2	59	4.1	13.0	7.7	1.4	13.4	1.4	3.7	3.7	4	55	62		230	15	!	136	1100
2	9	59	4.1	12.7	7.7	14	2.2	. 4	9	2.6	4	54	64	20	30	16	1	114	230
2	16	59	4.0	12.4	7.7	• B	6.7	. 5	1.1	2.0	4	61	68	10	25	16	1	132	44
2	24	59	3.9	13.2	7.7	.7	4.4	. 3	. 9	2.4	4	64	64	10	20	17		147	40
3	2	59	4.9	12.8	7.8	1.3	5.6	.5	1.2	2 • 4	4	63	70	20	20	17		129	-
3	9	59	5 . B	12.6	7.8	1.0	9.1	. 7	1.5	2.6	4	65	72	20	25	17		132	360
3	16	59	6.3	12.4	7.8	. 9	7.4	. 5	1.7	2 . B	3		70	5		17		105	25
3	23	59	6.1	12.8	7.5	1.0	5.1	. 5	1 - 4	2.1	4		70	5	20	16		142	10 65
3	30	59	6.7	12.3	7.8	• 9	7.7	. 9	1.6	1 9 2 5	4	60	72 66	10	30 40	1 6 17		102 138	
4	6 13	59 59	8.2 9.3	12.1 11.6	7.7 7.8	.7 .8	6.9	.7 1.0	1.6	2.7	4		62	-	25	15		100	95
4	20	59	10.0	12.0	7.8	.7	6.4	1.0	1.8	1.4	3		66	_	20	14		100	2
4	27	59	10.0	11.B	7.8	1.1	7.1	.9	1.7	1.6	3		66	10	15	14		153	+1
5	4	59	9.8	11.9	7.7	. B	5.6		1.6	1.3	ž		62	_	20	12		132	-
5	11	59	10.8	11.6	7.6	. 8	3.1		1.6	1.4	ī	51	62		25	13		119	20
5	18	59	11.B	11.5	7.6	1.0	5.5	. 9	1.7	1.7	2		62		20	11		9 B	35
5	25	59	12.1	11.5	7.6	1.0		-	_	1.4	2		58	10	25	10		ВО	5
6	1	59	13.9	11.7	7 . B	•6	7.8	. 4	1.1	2.5	2	45	54		20) B		92	48
6	В	59	13.B	11.4	7.5	. 5	8.8	1.1	2.1	1.5	2		52			B 11		90 109	24 40
6	15	59	14.0	11.2	7.8	1.1	11.0	. 7	3.0	1.2	2		52 52		10	110		133	13
6	22	59	15.5	10.9	7 . B	• 9 • 7	5.7	• 9	2.1	1.2	2		54	-		10	1	100	60
6	29	59	15.5	10.9	7.9	· ′ _	7.9	. 9	1.4	1 • 4				<u></u>					

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

OREGON

MAJOR BASIN

PACIFIC NORTHWEST

BUB BASIN

COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

BONNEVILLE, OREGON

DATI OF SAM		These	DISSOLVED				GLOSSE	DEMAND	AMMONIA								TOTAL	
PAY A	YEAR	Pupru Contiguid	COCTORNA Lugs/1	Page 1	1.0.D ==/l	= 0 B = 1	1-Hous mg/l	34-HOUR mg/l	HETROPIN Mg/I	-p/I	AKALMIT	HARDNESS mg/l	COLOR Forth mathy	(scale units)	≡J [AT □	PHOSPILATES	Dissipliyed	COLFORMS per 100 ml
7 6 7 13 7 20 7 27 8 3 8 10 8 17	59 59	17.5 19.8 18.8 18.8 20.1 19.5	10.9 10.1 10.3 9.7 9.9 10.4 9.0 9.3 9.9 10.0	7.7 7.9 8.1 8.0 8.3 8.2 7.9 8.2 8.1 8.0	1.5 1.1 .9 1.4 1.5 1.0	5.0 4.4 7.0 4.7 5.4 19.4 1.4 5.4	.9	2.1	2.0 2.6 1.4	2 2 2 2 2 2 2 3 3	49 51 51 52 53 53	58 600 62 66 65 64 72 70		15 10 10 10 10 10 5 5 5	10 10 10 13 11 - 14 14 15 17		117 105 102 76 104 - 109 108 135 94	56 -28 28 20 25 2 15 200 23

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WASHINGTON

MAJOR BASIN

PACIFIC MORTHWEST

SUB BABIN

MIDDLE AND LOWER SMAKE RIVER

STATION LOCATION COLUMBIA RIVER AT

PASCO. WASHINGTON

	DATI		TEMP	DESTOLVED				CALORDE	DEMAND	AHMONA									
HE-FO	ž	¥¥.	D	-4/I	Ħ	■ O D ■■ /I	- 4/1	1-HOUR mg/l	24-HOUR mg/l	NETROCKEN mg/l	CHLOROUS mg/l	ALEALIMITY mg/l	HARCHIES mg/l		TURBLESTY (scale units)	ERFATES —p/I	PHOSPHATES	FOTAL DESCRIPTION SCRIPTION TOTAL	COLFORMS per 100 mL
100111111111111111111111111111111111111	6 13 20 27 3 10 17 24 18 15 22 9 5 2 9 16 3 2 2 9 6 13 2 2 7 4 11 18 5 5 1 8 15		18.0 17.0 16.0 15.0 14.5 14.0 12.0 8.0 8.0 7.0 5.0 6.0 6.0 6.0 6.0 9.0 12.0 11.0 11.0 11.0 11.0 11.0 11.0 11	8.9 9.4 9.2 9.5 9.6 10.3 10.9 10.8 10.9 10.8 12.3 12.3 12.7 12.2 12.4 11.6 12.5 10.9 11.6 12.7 11.6 12.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.7 11.6 12.8 11.6 12.8 11.6 12.8 11.6 12.8 11.6 12.8 11.6 12.8 11.6 12.8 11.6	7.9 7.8 7.9 7.8 7.7 7.7 7.6 7.7 7.8 7.8 7.8 7.8 7.8 8.0 7.8 8.0 8.0 8.0 8.0	.2 .3 .7 .7 .7 .8 8 1.7 1.5 .9 1.5 2.5 3.7 2.2 2.3 2.2 2.5 1.7 7 1.3 1.7 2.7 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	7.2 4.6 6.5 6.7	.8 .8 .8 1.0 .8 .5 .5 .8 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	1.3 1.5 1.3 1.3 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0			64 65 62 65 66 64 64 65 62 65 67 67 68 65 65 66 65 65 65 65 65 65 65 65 65 65	7427747747747747747747747747747747747747	6 3 3 3 3 4 2 2 9 9 6 5 5 7 5 6 6 7 7 5 6 6 1 1 1 0 1 1 2 6 1 1 5 9 7 1 0 6 8 1 2 1 2 1 1 2 1 1 2 1 1 1 5 1 5 1 5 1 5	3 11 2 3 2 1 5 2 2 3 3 3 4 4 9 7 8 11 14 4 4 6 6 8 12 4 11 11 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19				
-		59 59					7.5	-		- - -	-		66 60	15 10	13 11	- - -			

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

SUB BASIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION COLUMBIA RIVER AT

PASCO. WASHINGTON

BATE OF SAMPL			DESMONATED				CHLORINA	DIMANO	ANUNONIA-								TUTAL	
-1 :	4		CENTERN	p#	10.9 mg/l	/i	1-H2UR ====/1	34-HOUR mg/l	HITHOGEN mg/l	==/1	ALKALIMITY ====/I	HARDWEE	COLOR Jeans make)	inemp empt)	EMFATE Eg/I	PHOSPILATES =g/l	Distroction scaling erg/1	per 100 mi
7 27 8 3 8 10 8 17 8 24 8 31 9 7 9 14	59999999999999999999999999999999999999	15.3 17.0 17.0 18.0 19.0 19.0 18.5 18.0 17.0	9.6 9.7 9.9 10.1 9.5 9.7 9.3 9.5 9.5 8.7	7.89 8.00 7.99 7.90 7.90 8.10 8.09 7.8	1.6 4 1.2 1.4 8 1.2 1.2 5 9 7	5.0					58 60 60 64 63 63 63 63 63	64 68 62 66 72 74 70 76 70 76	9 12 8 9 5 8 8 6 5 7 6 6 6 3	761095444333333				

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

WASHINGTON

HAJOR BASIN

STATE

PACIFIC NORTHWEST

SUB BASIN

COLUMBIA RIVER ABOVE YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

WENATCHEE, WASHINGTON

	DATE							Citosoli										ROTAL	
OF I	***	~	THAP	DISSOLVED	ا بنے	ron	دمه			AMMONIA- HETROSEH		ALEALBETY	HARDEN	COLOR	Part of the last	MILIATES.	HOSTANS	MARCE VED	COLFORNS pay 140 ml.
HE ST	PA.	YEAR	C-de-shi	- /I	_	= 4/ī	== /1	1-HOUR 	24-HOUR mg/l	-4/ 1	- _/1	*4 /1	= //			mg 1	/1	- 4/1	
10 10 10 10 11 11 11 11 12 12 12 12 12 12 12 12 12	1 8 15 22 29 5 19 26 2 29 16 23 30 6 3 2 2 7 4 11 18 2 8 15 2 2	556668866886699999999999999999999999999	1711023237465435531239935440011112111111111111111111111111111111		7.7 8.0 8.0 7.9 8.0 7.9 8.0 8.0 8.2 7.8 8.0 8.1 7.8		3.7					58 58 57 58 57 58 57 58 59 65 51 54 76 59 64 57	63 64 67 64 63 65 79 91 88 74 70 71 71 66 66 65 75 75 75 75 75 75 75 75 75 75 75 75 75					38 121 119 103 116 243 89 131 74 85 147 66 83 140 62 114 125 120 120 120 120 120 121 121 121 121 121	_

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

BUB BABIN

COLUMBIA RIVER ABOVE YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER AT

WENATCHEE, WASHINGTON

Of 1	ATI			DESMOCVED				CHOUSE	DENAMO	AMMONIA-								TOTAL	
Ŧ	_	<u> </u>	Proprier Cartigratis)	2307764EN ==1/1	pi i	Lo. ₽ _/1	= 1/1	1-HOUR /1	34-HOUR ==_/I	MITECULAR mg/l	=4/1 CHOMPS	ALEALMENY ===/I	l	CÓLOR Jeculo mello)	TURNIDITY heads maked	ERFATE ————————————————————————————————————	MIDENATE ME /I	DisSolved Notice mg/l	per 100 mi
7 7 7 7 7 8 8 1 8 8 9 9 9 1	14 27 27 27 20 17 24 19 14	55555555555555555555555555555555555555	14.6 15.8 16.6 16.8 17.4 17.4 16.9 16.4 17.6 16.3		- 8.0 8.1 7.9 8.1 7.0 7.6 7.9 8.0		B • 1					54 56 56 56 56 55 51 51 53 55 55	67 61 58 63 59 64 58 62 61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•	118 73 95 68 117 93 116 88 73 82 77 71	*3 *3

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

PENNSYLVANIA

MAJOR BASIN

NORTH ATLANTIC

SUP BABIN

DELAWARE-SCHUYLKILL RIVERS

STATION LOCATION DELAWARE RIVER M90 AT

PHILADELPHIA, PENNSYLVANIA

	DATI		THE	DESIOLVED				Gloma	THE AND										
Н	ž	YEAR		COTTEMEN HIG/I	High	■ . 0 D	co. ₃ /1	1-Hout ==_/1	34 HOUS ===/1	MITEOGRAP MITEOGRAP Mg/I	CALCHOS.	ALEALINITY mg/l	HARDANA Pag/I	201.02 (1	THESEDITY	20/415	PHOSPHATES	TOTAL DESOLVED SOLEDS mg/l	per 100 mi
10	6	38	16.0	7.B	7.1	-	17.0	3.0	4.8	3.0	6	44	62	35	45	30		160	3500
10	13	58	15.0	7.6	7.1	-	16 · B	4.2	7 • 1	6.0	19	37	62	40	30	28		162	6000
10	21 28	58	15.0 15.0	9.0	7.2 7.2	<u>-</u>	16.5 10.3	3.6	6.0	2.4	11	45	66	25	25	29	}	178	2000
10 11	3	56	10.0	10.0	7.1	_	10.0	Z.3 4.7	5.4 7.7	1.6 4.0	9	50 30	6B 40	25 30	28 25	29 28		140 102	4900 3200
11	10	58	10.0	10.2	7.1	_	12.2	2.0	3.8	1.4	3	27	38	25	26	19		102	9400
ii	17	50	10.0	10.0	7.1	- 1	14.0	3.9	5.3	5.6	5	34	48	20	30	20		122	1400
11	24	55	8.0	3.9	7.1	- '	7.0	B • 1	10.3	5.8	6	38	48	20	28	24		118	680
12	1	56	9.0	13.0	7.2	-	13.5	4.5	6.8	4.0	3	32	52	30	BO	26	ŀ	163	2800
12	8	5 B	1.0	10.01	7.0 7.1	-	9.2	7.2	9.8	3.0	9	27	52	40	25	23		111	5800
12 12	15 22	58 58	.5 1.0	15.0 13.2	7.2	_	12.0 10.3	6.0 4.8	7,5	6.0 6.0	5 6		52 64		25 22	22 2 6	1	115 135	4400 1600
12	29	58	2.0	13.4	7.3	_	13.0	3.8	5.2	7.5	6		60	_	28	27	1	133	1000
1	5	59	1.0	14.0	7.2	_	12.2	4.0	5,B	15.0	6		72		75	25		144	1800
ī	12	59	1.0	13.5	7.2	_	10.4	5.2	6.6	75.0	В		84	70	65	29		150	4400
1	19	59	1.0	8.0	6.9	-	8.9	5.0	6.6	2.8	10		60		15	22		120	2100
1	26	59	1.0	10.0	7.0	-	⊣	2.0	3.8	6.8	5		60		110	43		115	3800
2	2	29	1.0	11.5	6.9	-	_ 8 • 8	1.8	4.1	8.4	7		54		30	40		78	1000
2	9	59	1.0 1.0	12.2	7.0 7.1	_	21.2	3.3 4.6	6.2 5.9	18.0 10.0	10		76 70		50	3 B 2 Z		168 162	3400 4600
2 2	16 23	59 59	2.0	12.4	7.1	_	15.4	2.8	4.5	5.6	7		53		38	24		122	
3	2	59	3.0	11.0	7.1	_	11.9	3.0	4.2	8.5	6		70	_	30	31		160	2000
3	9	59	6.0	12.2	7.1	-	12.9	4.4	5.0	10.0	l B	1	48	50	160	53		321	5600
3	16	39	3.0	14.8	7.1	-	10.5	3 • B	4.9	12.0	11	28	48		45	70		162	4200
3	23	59	10.0	12.3	7.2	-	9.6	4.7	6.2	12.0	10		46		48	35		120	2600
3	30	59	7.0	9.3	7.2	-	16.9	3.0	5.2	9.0	9		70		25	29 32		110	2400 1800
4	6	59	9.0	10.6	7.2	-	9.7	-	-	18.0	3		26 36	1	60	28		94	5100
4	13	59	11.0 15.0	10.2	7.2 7.2	_	B.7	_		25.0 7.0	6		28			25		105	1800
4	20	59	15.0	9.5	7.2	_	4.6	_		10.0	5				35	30		98	4500
5	4	59	15.0	9.0	7.2	_	B.6	_	1	9.6	4		4 E		38	22	.]	94	-
5	11	59	17.0	6.8	7.2	-	6.3	-	-	18.0	8	30	4 E			1.5		105	5000
5	18	59	19.0	6.6	7.2	-	7.7	-	-	10.0	5							100	22000
5	25	59	22. 0	5.6	7.2	-	13.2	-			4							95	7460
5	1	59	23.0	6.0	7.2	-	18,2	-	1		3							150	3600
6	В	59	23.0	4.5	7.2	-	15.7	_	1	17.0	7			- 1	1	35		155	17000
6	15	5.5	23.0	6.0	7.2	_	15.3	_		1								190	11000
6	22	5 9 5 9	24.0 25.0	5.3 6.1	7.1	_	11.8	_	1	L .							1	193	800
-	12,	177	20.0	""	\ ' '		1110						<u></u>			<u> </u>			

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

PENNSYLVANIA

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

DELAWARE-SCHUYLKILL RIVERS

STATION LOCATION DELAWARE RIVER M90 AT

PHILADELPHIA: PENNSYLVANIA

	DATE SAME 1		ТЫР	DESCRIPTION]		CHORDS	DEMAND	AMMONA.								TOTAL	
- HELPER	à	YEAR	(Dograce Cardynaid	COLLAGEN	Pil	# 0 p	-1 ∕1	1-HOUL	24-HOLE mg/l	HTTBO#EH Pag/1		ALKALPHTY ==_/I	HARDNESS mg/l	COLOR		EJPATE ≠e/i	PHOSPILATES mg/l	DESOLVED SOLES mg/l	Per 100 mi
7 7 7 7 8 8 8 8 9 9 9 9 9	13 20 27 3 10 17 24	59 59 59 59 59	25.0 25.0 26.0	6.45 5.01 5.01 5.01 5.01 7.06 4.80 7.06 4.80	7.2 7.1 7.1 7.1 7.2 7.2 7.1 7.1 7.1 7.1 7.2		15.0 12.4 15.9 13.7 13.1 17.1 18.8 14.1 17.7 17.7			10.0 14.0 10.0 5.0 5.0 12.0 20.0 14.0 14.0	777699877763777	42 44 42 43 38 40 41 45 46 45 40 41 46	65 64 58 62 64 7	25 30 10 15 12 13 20 20 30 30 25	25 38 25 27 325 35 222 18	24 26 39 31 32 30 28 31 36 40 35		187 195 143 186 165 167 128 181 192 190 223 220	2000 9400 21000 14000 32000 5200 3500 3500 5200

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEW YORK

MAJOR BABIN

NORTHEAST

SUB BASIN

LAKE ERIE-NIAGARA

STATION LOCATION LAKE ERIE AT

BUFFALO, NEW YORK

	DATE			DESIGNATION				GLOSS											
HUMON), PA	ž	Degrada Candigrada)	DXTORN mg/l	p± t	L O B, ≔L /1	- ■/I	1-HOUE =g/l	34-HOUE	AMMONIA. HITEOGRA WE/I	Cylichina mg/l	ALKALBETT	HAENES mg/l	COLOR	Tubeside TY	SEATE mg/l	#H09HATE	TOTAL DEMOLVED EDLEDS ENg/I	COLHOMAS per 104 mgL
10	1	50	19.1	9.2	8.1	• 8	7.3	.0	. 8	.1	29	88	129	0	7	23		127	12
10	В	58	16.8 17.0	10.0	8.2 8.0	1-1	4 • 4	.0	. 5	•1	32	88	124		Ž	24		-	12
10	15 22	58 58	16.1	9.6 10.6	8.0	.6	2.9	.0	• 2	•1	29	87	128	0	2	23		-	21
10 10	29	56	17.0	10.5	8.0	1.2	6.7	.0	.2	•1 •0	20 30	96 92	132 124	_	1 1	23 22		121 193	5 2
11	• 5	58	13.6	10.7	8.3	.7	6.1	.0	. 4	.0	26	87	125	9	5	22		182	16
11	19	56	12.0	11.6	8.1	.7	13.7	1.0	3.2	.3	29	88	130	ĺó	12	27	ļ	180	9
11	26	58	11.0	11.0	7.0	1.3	5.4	.6	3.0	•1	33	70	124	0	5	27		189	-
12	. 3	58	7.5	12.9	7.7	• B	6.0	. 8	2.4	•1	25	49	130	0	6	25	l	205	5
12 12	10 17	58 58	2.2	14.4	8.1 8.3	1.4	6.9	.6	2.7	•1	23 45	88	132	10	7	25		181 192	180
12	24	55	4.2	14.2	8.3	1.2	3.1	.8	2.4	•1	92 30	8 B	120 120	10	10	26 25		188	_
12	31	5	3.9	14.8	B . 2		3.5	~	-	ات: ا	29	88	122	10	5	19		178	_
1	7	59	3.0	14.4	8.2	. 4	8.5	. 9	2.4	.1	28	89	118	ó	2	22		204	-
1	14	59	2.0	14.4	8.1	1 • Z	6.5	• 2	1.2	.0	30	88	120	0	5	23	1	168	*1
1	22	59	3.0	15.0	7.8	2.3	7.6	. 8	2.4	• 1	21	86	128	0	3	26		162	-
1	28	59	1.7	15.0	B.O	• 2	7.0	- 6	2.6	•0	27	88	136	0	7	22		166	60
2	4 11	59 59	9.0 1.5	13.2 14.8	8.1 8.0	•1	6.6	.6	2.8	.0	28 25	86 80	132 120	0 0	5 3	22 22		165 178	5 2
2	17	59	3.0	14.4	7.7	1.6	3.8	. 6	2.6	.0	28	78	120	0	1	23		170	10
2	25	59	4.0	13.7	7 B	5	3.7	.9	2.6		28		122	ō	Z	25		169	+1
3	5	59	5.0	13.9	8.0	• 1	3.3	. 9	2.6	.0	28	BO	120	0	1	24	1	189	-
3	11	59	7.1	14.3	7.8	1.0	3.3	- 8	2.6	.0	28	80	124) 0	2	22		194	
3	18	59	6.0	14.0	7.9	1.3	4.0	. 6	2.0	• 0	25	80	124	0	2	22		191	*1
3	25	59 59	4.8	13.8	7.9 8.1	1.8	6 · B	• 2	2.0	.0	27 29	82 92	120 120	0	1 2	24 20		204 182	_
4	2 8	59	3.8 4.5	14.4	7.4	.7	4.0	• 2	1.4	.0	29	92	120		9	24	1	191	10
4	15	59	3.0	13.4	7.8	. 7	4.2	.4	2.2		25	84	114	١٠٥	ĺí	23		189	¥1
4	22	59	5.9	13.5	7.4	.6	2.2	. 8	2.2	.0	26	84	110	٥	3	22		165	130
4	29	59	6.4	13.4	8.1	.5	5.3	. 8	1.9	.0	25	86	120	0	3	19		176	2
5	6	59	7.5	13.2	7 . B	• 4	4.2	. B	1.9	-1	25	80	116			22	1	168	_
5	13	59	7.5	13.0	B . O	• 7	2.0	- 6	1.9	.0	25	80	120	0	. –	20 22		176 198	+1
5	20	59	11.0	12.2	8.1	1.0	4.0		3.0	.0 .0	29 23	92 88	120 120	0	_	22		202	+1
5	27 4	59 59	14.5	11.3	8 • 1 7 • 9	1.0	2.4	. 9 . 8	2.8	.1	23		120	l ő		23		183	
6	10	59	20.0	10.4	8.3	.8	7.2	1.1	2.8		23	-	116	0		22		213	+4
6	17	59	18.5	9.4	8.1	.8	5.5	1.4	3.2	.1	25	90	122	1		2.2		204	3
6	24	59	19.5	9.1	8.3	• 7	4 - 6	1 - 4	3.5	.0	29	92	128	0	2	24		207	_
															L	L	<u>L</u>	L	<u> </u>

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEW YORK

MAJOR BABIN

NORTHEAST

SUB BASIN

LAKE ERIE-NIAGARA

STATION LOCATION LAKE ERIE AT

BUFFALO, NEW YORK

DATE OF SAMPLE				·		CHORN	DENAND	AMMONIA-								TOTAL	
DAY YEAR	(Dagrees Cardigrade)	DISSOLVED DISTOREN DISSOLVED	pH	2. 0 0 -3 /1	co.a =4/i	1.HOUR	24-HOUR ====/I	HETEDORN HETEDORN	=g/i	ALKALINITY ==/I	HARDHESS mg/l	cotos	(IURSEDITY	BUATE	PHOSPHATES	DESIROL/NO NOLITHI NUL/I	per 100 mt.
7 1 59 7 15 59 7 15 59 7 22 59 8 5 59 8 26 59 9 16 59 9 16 59 9 23 59 9 30 59	22.2 22.1 23.5 24.2 23.5 24.6 25.0 25.8 25.5 20.8	9.2 9.9 9.0 8.4 8.2 8.1 8.2 8.7	8.4.4.5 8.3.4.4.5 8.8.3.4.4.5 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	1.6 .9 .7 1.0 .6 .4 .5 .8 .7 .6 .5 .5 .4	4.86 27.0 5.4.8 5.0 3.5 4.5 5.0 7	.9 1.3 1.8 1.5 1.3 1.4	3.2 2.7 3.3 3.7 3.2 3.0 2.6 2.0 2.3 2.3 1.5	01.100000000000000000000000000000000000	28 26 18 23 19 23 25 25 23 23 23		120 124 120 120 130 120 120 120 120	0	1112515655522	25 21 22 27 27 29 21 20 21 22 21 22		264 195 200 195 122 241 216 2202 204 212	

STATE

HICHIGAN

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

WESTERN GREAT LAKES

BUB BASIN

ST. CLAIR-DETROIT RIVERS

STATION LOCATION DETROIT RIVER AT

DETROIT. HICHIGAN

	DATE		TIDAY	DESTROYED				OFFICE	DIRECTION	*****								TOTAL	
ном	A.	¥¥.	(Degree Cantigrand)	OXYMEN mg/l	Her	■ 0.D ■ (1	100 ===/I	1-HOUS	34-HOUR mg/l	ARMONIA- HTROUGH mg/l	-4/1	ALEAURETT ===/I	HARDHES mg/l	COLOR 	TURNIDITY	EMPATE) Eg/l	PHOSPHATES Pag/I	Malicia Portori Portori	COUPORMS per 100 ml
10	В	58	14.4	8.5	7.9	•5	3.0	.5	. 9	.0		83	99	0	15	13		135	17
10 10	14 21	58 58	13.3	9.0	B.O	• 5	3.4	. 4	.9	. 2	8	82	99	Ö	25	12		132	15
10	29	58	11.1	9.2	8.0	-6	1 , 1	7	_		-		_	_	-			125	3
iil	5	58	10.0	9.8	7.9	.5	2.4	• 4	1.2	•1 •0	6	82 82	99 100	0	15 10	12 12		128 123	7
ii	11	58	7,8	10.9	8.0	.6	6.1	.8	1.3	.3	É	51	100	0	30	12		125	14
11	15	58	15.6	9.5	7.9	•6	4.0		1.1	.õ	7	81	99	6	10	12		128	10
11	26	55	6.0	10.7	7.9	. 5	2.8	.5	1.0	.1	7	79	99	0	50	12		127	
12	3	58	. 5	13.0	7.9	. 4	3.5	. 5	1.0	.0	6	79	99	اه	20	11		127	47
12	9	5 B	.5	13.1	7.9	• 5	3.2	. 5	1.0	.0	6	81	99	0	15	10		125	90
12	16	58	.5	13.0	8.0	• 4	2.6	• 4	.9	•0	6	80	100	0	4	10		124	-
12	25 6	5 B	• 5 • 2	13.3 15.0	7.9 7.9	• 5	2-6	. 5	• 9	•0	6	83	99	0	6	12		120	_
i	13	59	.5	14.4	7.9	- 4	3 • 6	. 5	1.0	-1	7	83	102	0	6	12		125	2
1	21	59	•5	14.2	7.9	. 4	3 • 1 2 • 5	.5	1.0	,0 .0	6	84	103 100	0	2	12		125 125	*1 *1
i	28	54	. 5	14.0	8.0	.4	2.8	.5	1.0	.2	6 7	83 83	100		2 2	11 12		120	*1
Ž	10	5 9	.5	13.9	B. 0	16	2.2	.5	1.0	.0	в́	82	103	١ ٥	2	13		127	*1
2	18	59	• 2	14.8	B. 0	• 5	3.7		1.1	.0	7	83	103	ŏ	3	12		123	+1
2	24	59	• 3	14.2	B . O	. 5	3.7	. 5	1.0	•1	7	84	103	اه	3	12		130	14
3	3	59	. 5	14.1	B.O	.5	4.1	.6	1.1	.1	7	83	100	0	2	13		122	*1
3	10	59	.5	14.0	B.O	• 5	3 • 5	. 6	1.2	•1	6	79	99	0	2	11		122	3
3	18	59	.5	13.9	B.O	. 5	3.5	. 5	1.0	.1	7	82	99	0	5	11		125	6
3	24	59	• 7	13.7	B. 0	-6	3.9	. 7	1.4	.0	7	52	100	0	3	13		116	+]
3	31	59 59	- 7	13.5	8.0	• 4	2.9	- 7	1 3	• 2	7	79	103	0	25	13		123	7
4	7 15	59	3.8 4.4	12.2	7.9 7.9	• 6	3.4	• 7	1.2	• 2	7	79	100	0	30	13		123	27
7	21	59	7.2	12.2	7.9	1.3	5.9	-6	1.2	.1	7 7	81 81	107 100	0	7 10	17 14		131 122	3
4	28	5 9	8.4	11.2	7.9	.5	4.5	.6	1.3	.1	7	81	99	ة ا	30	14		125	7
5	5	59	12.2	10.5	B 1	.6	4.3		1.1	.1	7	81	100	0	10	13		125	4
5	13	59	12.4	10.6	8.1	• 5	3.6		1.3	1	;	52	99	6	10	13		125	11
5	21	59	11.1	10.6	8.1	_	3.6		1.2	.1	7	84	100	Ö	10	13		126	i a
6	2	59	17.7	9.4	8.0	. 4	4.0		1.2	.0	7	83	99	0	10	13		124	24
5	10	59	19:4	9.0	9.0	. 5	3.9	. 6	1.3	•1	6	81	99	0	7	12		121	13
6	16	59	19.8	9.2	8.1	• 5	6.4	.6	1.3	.0	7	83	100	0	В	12		122	190
6	30	59	21.7	8.2	8.2	• 5	3 . 8	. 7	1.3	.0	7	81	101	0	10	16		126	4
7	. 8	59	22.2	B • 2	8.1	• <u>7</u>	3.9	. 8	1.5	• 1	7	81	101	0	10	13		126	4
7	1 4 21	59	23.3	8.0	8.1	∎7 €	3 · B	. 8	1.5	- 2	7	81	101	0	10	14		126 131	10 1
'	21	59	22,8	B • 3	8.0	• 5	3 • 8	• 5	1.6	.2	9	ВО	99	"	10	13		151	1

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MICHIGAN

MAJOR BASIN

STATE

WESTERN GREAT LAKES

BUB BASIN

ST. CLAIR-DETROIT RIVERS

STATION LOCATION DETROIT RIVER AT

DETROIT, MICHIGAN

	DATE		Т	DESTOLVED				CHORSE	DENAME	AMMOREA								TOTAL	
н	Day	\dashv	(Degrees Configurate)	COTTON	μĦ	1.00 =g/1	€.O.B ■4/1	1-HOUZ mg/l	24-HOUR	HETEOGRA ME/I	CHLORIDAN mg/l	ALKALINITY ===/I		host ampel	TURNIDITY (seeds units)	== /1	PHOSPHATES	BOLIDS BOLIDS mg/l	Per 100 mi
8 8 9 9	11 18 24	55555555	22.2 25.0 25.0 25.0 25.0 26.7 19.5	8.3 7.4 6.2 8.3 7.8 6.9 9.9 9.0	8.0 7.9 8.2 7.9 8.1 8.0 7.9	· 7 • 4 • 5 • 5 • 5 • 5 • 5	3.7 1.8 2.9 3.1 4.9 7.3 3.6 4.0	. 5 . 8 . 8 . 6	1.6 2.2 1.7 1.7 1.2 1.5 1.2	•2 •1 •1	7 7 8 8	79 79 80 78 81 79	101 99 96 96 95 97 97	0 0 0 0 0	6 10 8 8 10 10 15 15	12 12 12 12 12 12 12		124 127 125 124 123 126 128	4 11 9 - 2 #1 15 50

STATE

MINNESOTA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

WESTERN GREAT LAKES

MIRAR BUR

LAKE SUPERIOR

STATION LOCATION LAKE SUPERIOR AT

DULUTH, MINNESOTA

	DATE			PHINDLYID		·		CALDERS	DIRECTOR										
- HU-	Å	<u> </u>	(Degrees Configurate)	DXYMMAN	1	1.0.D ■ 1 /I	= - /l	1-ROUR =4/1	34-HOUE mg/l	ANMONIA- HETROGEN HE/I	CHLOUDES	ALEALMITY mg/l	HARDINGS mg/l		TURNSHIT (trade redict)	Safate Py/i	PROSPHATES ===/I	TOTAL DEBOLVED FOLDS REJ/I	COLFORNS per 100 ml.
10	.6	5 B	B.3	11.3	7.7	• 5	4.4	.7		• 2	2		3.0	5	0	5		53	17
10 10	13 20	58	10.6 9.4	11.3 11.7	7.6 7.7	.5 .4	4.9	• 9	2.1	•1	2	42	40		0	5		63	1
10	27	58	10.0	11.2	7.8	• 4	4.0 6.6	.9 1.1	2.1	•1 •1	2 2	42 42	40	0	0	4		53	2
11	3	58	10.0	11.2	7.7	• 3	4.0	1.0	2.2	.1	2	42	40 39	5	0	7		66 52	_
11	10	58	10.0	11.2	7.9	.5	3.6	1.2	2.4	.1	2	42	39	5	اة	I		55	26
11	17	58	9.4	11.3	7.8	• 6	5.6	. 9	2.2	.1	2	39	37	Ιó	ĭ	4	l i	54	16
11	24	58	B.3	11.5	7.8	• 5	4.8	. 5	1.7	. 2	2	40	38	ا	ī	4	l l	64	32
12	1	58	6.7	12.2	7.8	1.0	4.8	1.0	1.7	.1	2	40	38	0	1	5		50	25
12	. 5	58	6.1	12.3	7.B	• 6	4.0	. 9	1.6	• 0	2	42	40	0	1	5		62	+ 1
12	15	58 58	4.4	12.5	7.B	.6	3 • 8	• 9	1.3	• O	2	43	39	0	1	4		62	2
12 12	22 29	58	4 . 4	12.6	7.8 7.8	•5	4.0	• 9	1.4	.0	2	43	41	0	0	4		61	_
12	5	59	4.4	12.7	7.8	.3 .6	4.4 6.8	• 9 • 9	1.3	-1	2	42	40	0	0	5		48	
1	12	54	4.4	12.8	7.B		6.8	. 9	1.4	•0	1	43 43	41 41	0	0	5 4		54	*1
ī	19	59	4.4	12.7	7.8	.6	6.0	. 9	1.4	.2	1 1	43	41	١ ،	٥	2		51 56	*1 4
î	26	59	3.3	13.0	7 B	1.0	7.6	1.3	2.9	• 2	2	42	41	5	1			62	15
2	Z	59	3.3	13.0	7.7	. 4	5.0	. 9	2.0	.1	2	42	39	5	1	2		55	1 7
2	9	59	2.8	12.9	7.8	. 9	8.8	1.8	3.4	.3	Ī	42	40	15	2	2		61	68
2	16	59	3.3	13.7	7.7	. 5	2.8	1.1	1.7	.1	2	42	37	0	1	1		49	1
2	24	59	1.1	13.9	7.6	• 3	2.8	1.0	2.1	•0	Z	44	40	lo	1	2		42	2
3	2	59	. 6	13.8	7.6	. 5	3 • 6	1.0	1.7	.0	1	43	40	0	1	2		4-6	+1
3	9	59	1.1	13.9	7.5	. 3	3.6	1.1	2.1	•0	2	43	37	5	1	2		47	3
3	16	59	. 6	14.0	7.6	• 4	2 . 8	1.0	1.5	• 0	2	43	41	0	1	5		53	2
3 4	30 7	5 9 5 9	1.1	13.8	7.6 7.6	.3	2.6	1.0	2.0	.0	2	45	44	0	1	•		53	1
4	13	59	1.1	13.8	7.6	. 4	3 • 2 2 • B	1.0	2.0	.0	2	45	45	0	٥	5		56	2
4	20	59	1.7	13.7	7.6	.3	3.2	- 9 - 7	2.0	.0	2 2	44	44 44	0	0	5		61 54	*1 2
4	27	39	2.2	13.8	7.7	.6	3.6		1.7		2	44	44	0	اه	5	İ	59	*1
5	4	59	2 . B	13.5	7.7	.5	4.0			.0	2	45	43	0	1	9		48	*1
5	11	59	3.3	13.5	7.6	.7	4.4	. 9	2.0		Ž	45	44	l ŏ	i	4		57	63
5	18	59	3.3	13.5	7.6	• 6	4.4	. 9	1.9	د.	2	45	44	0	1	4		58	+1
5	26	59	3.9	13.4	7.7	.6	3 • 6	• 9	1.7	.1	2	44	43	5	1	2	1	44	+1
6	1	59	3.9	13.2	7.8	. 3	2.0	. 7	2.0	.1	1	45	44	5	6	3		35	66
7	6	59	-	-	-	-	-	-	-	-	-	-	_	-	-	-		-	+ 1
9	1	59	.			_	-			_	_		-	-	_	<u>-</u>			11
9	. 8	59	17.2	9.4	8.0	• 4	6.0			.0	2		44	3	0	2		46	+1
9	14	59	15.0	9.6	7.7	.6	4 • B			.0	2		43	5	0	3		76 57	3
9 9	21 28	59 59	12.2	10.5	7.8 7.7	.7	4.0		_	-1	2 2		44	5 0	1 1	2		57 53	3 6
	28	77	11.1	10.6	'•'	/	4.0	1 2	2.3	<u> </u>		1 77	44	1	1	2		פנ	

STATE

INDIANA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BABIN

WESTERN GREAT LAKES

SUB BASIN

ST. JOSEPH RIVER

STATION LOCATION LAKE MICHIGAN AT

GARY, INDIANA

	DATE									AMMONEA.								TOTAL	
нтиния	à	37	Tilder (Congresso Canalige melo).	DESCUVED DESCUVEDI PRE/I	Hiq	■.0.D ■ . /l	= 0 D = 0 /1	I-HOUTE mg/l	24-HOUR	HETTERSHIPM Mg/I		MEALINITY	HARDNINE mg/l		(posts mits)	SLIMINI Mg/l	PHOSPHATES mg/l	EOLIDS mg/l	per 100 ml
10	6	58	15.7	-	7.6	1	_	-	-	_	_	123	131	15	5	_		, -	48
10	13	50	15.0	-	8.1	-	-	-	_	_	-	130 119	130 130	10	1 1	_		151 156	26
10 10		58 58	15.2	_	8.0 B.0	_	1]	_	_	_	_	114	120	1 5	1	_		-	10 7 4
11	3	58	13.1	8,4	7.8	2.1	-	2.6	5.1	_	_	118	134	15	3	-		164	400
11	10	50	10.7	10.3	7.9	3.2	8.5	2.2	.0	-	7	119	132	25	14	-		-	1400
11	17	50	11.5	10.4	8.1	2 • 1	6.9		-	-	6	118	131	10	2	-		-	1100
11	24	58	10.0	10.9	B.1	1.0	8.0	. 5	1.6	-	6	119	131	15	8	-		160	790
12	1	56 58	5.2	12.2	B.0	1.3	7.3		2.3 1.7	-	6	115 116	131 131	10 15	9	_		162	1100
12 1	5	59	2.0 1.4	13.1	8.0 7.8	1.2	12.0	.4	1.7	_	6	124	141	15	8	_		179	43 38
ī		59	1.4	13.9	8.0	.8	5.4		2.4	_	6	125	141	io	2	_		170	*6
ī	12 19	59		-		_	_	-		_	_	_			_	_		-	48
1	26	59	_	-1	-	-	-	_	-	-	_	_	_	_	_	-		-	4
2	9	59	-	-	-	_	-	-	-	-	_	_	-	-	-	-		-	36
2	24	59	-	-	-	-	1 1	-	-	-	-	-	-	-	-	-		-	170
3	2 10	59 59	-	_	_	_]	_		_	-	-	_	-	-	_		_	500 500
3	16	55	2.8	15.6	7.9	2.5]	1.3	2.4	_	7	130	141	15	18	_		168	2400
3	24	59					_	-		_	-		- '-	-	-	_		-	8
3	30	59	4:4	11.9	8.2	7.0	-	.8	1.8	-	7	116	144	10	12	_		166	_
4	7	59	7.4	10.B	8.0	1.9	7.9	1.1	5.6	-	8	117	147	20	9	_		167	840
*	14	59	5.9	12.2	B • Z	1.2	4 - 6	. 8	2 • 4	-	7	102	138	5	1	-		172	130
7	21 28	59	7.2 9.3	11.5	8.0 8.0	1.7 1.8	7•1 8•0	• 7 • 8	2.4		6 7	116 112	13 136	20 5	14 5	_		171 17 2	-
5		59	8.8	11.5	8.1	2.2	7.2	. 8	1.9	-	6	113	136	10	1	_		169	
5	12	59	11.4	10.9	в.0	6.9	11.2	.7	2.6	-	6	113	138	15	i	-		197	_
5	19	59	11.5	11.1	8.0	1.2	5.4	1.1	5.2	-	6	112	134	5	1	_		-	30
5		59	12.0	-	7.9	-	-	-	-	-	-	111	135	5	2	-		-	_
•		59	14.8	9.8	7.8	2.0	8.9	1.2	4.8	-	6	106	136	15	10	-		-	180
		59 59	11.9	-1	7.9 B.2	-	26.4	-	-	-	-	110 108	133 139	5 10	9 5	-		-	22
6	23	59	19.1	-	B. 1	_	ı	_	_]	<u> </u>	_	104	136	15	5 5	_		_	82 73
6	30	59	13.8	_	8.1	- 1		_	-1	_	_	103	135	10	3			_	580
7	7	59	21.1	6.7	8.2	• 2	7.1	1.3	-	_	7	107	135	- 5	ã	-		171	22
7		59	13.4	12.1	8.3	3.1	-	. 9	-	-	7	108	136	10	1	-			
		59	21.8	-	B • 4	-	· -	-	-	-	-	106	136	5	1	-		-	20
7	28	59	12.8	-	5.2	-	7	-	-	-	-	109	136	5	2	-		-	1600

INDIANA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MIZAS ROLAM

WESTERN GREAT LAKES

BUR BABIN

STATE

ST. JOSEPH RIVER

STATION LOCATION LAKE MICHIGAN AT

GARY, INDIAMA

	DATI	u	THE	DISEDLVED				CLOUR	DEMAND	AMMONEA-							PHOSPHATES	DELICIVED	COLFORNA
н	ž	TATE OF THE PERSON NAMED IN COLUMN 1	(Degrees Constgrate)	DOCTORNA MILE/I	i ii	L O.⊅	= 0.0	1-HQL/R ==/1	24-HOUR ==p/1	HETELOGISH mg/l	mg/l	ALEADATT	HARDNESS mg/l	COLCAR 	TURNOTT (EULATE mg/l	= ≠/1	POLICE PO	par 100 m²
5 8 9 9		59 59 59 59 59 59	12.8 20.0 13.3 13.0 20.4 19.2 18.1 14.6	9.1 - - 9.1 7.6 - -	8.3 8.3 8.2 8.3 8.2 8.3 8.3	1.8	2.8	- - -	- - - - 2.1 2.7		- 6 7	109 109 108 103 117	196 135 136 136 133 130 130	5	4 3 2 4			168	10 920 40 310 40 20 20 64

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEW YORK

MAJOR BASIN

NORTHEAST

BUB BASIN

LOWER HUDSON RIVER

STATION LOCATION HUDSON RIVER BELOW

POUGHKEEPSIE, NEW YORK

_	MATE F EARN		Tible	PEROLVED				CLOSE	DEMAND	AMMONGA-		ALKALINITY	HARDNESS	coLot	TURNINGTY	RUUATIS	PHOSPHATE	TOTAL	COLFORM
HE HOM	à	ž	Property Configurate		při	■4 /1	co s. ⇒ /l	1-HOUTE mg/l	24-HOUR mg/i	HTROUGH Mg/I	-	-	- /I	COLOR COLO	(acute make)	= g/I	= g/1	FOLIDI INILITI	FF 100 mi
10	6	58	19.1	-	7.3	•	_	-	1	_	•	54	80	-	17	_		-	_
10 10	13 20	29	18.1	-	7.3 7.3	-	-	-	-	_	6	54 52	76 78]	17 13	1 -		_	_
10	27	33	14.5	_	7.3	-]	_		_	6	54	76	_	15	-		_	_
11	3	5	11.5		7.3	_		-	-	-	6	50	72	-	15	_		-	-
11	10		9.9	-	7.3	-	-	-	-	-	6	54	78	-	17	-		-	-
11 11	17 24	35	10.4		7.3 7.1	_	1 1	_	_	-	6 6	54 50	76 72	-	17 17	-		-	_
12	1	50	6.9	_	7.1	_		_	_	_	5	52	84	-	13	_		_	_
12	8	50	4.0	-	7.3	-	-	-	-	-	6	52	82	-	14	-		-	-
12	15	58 58	1.5	-	7.2	-	18.1		-	-	6	52 54	90 88	_	12 9	_		-	-
12 12	22 29	58	1.0 1.1	_	7.2 7.4	-]	-	_	_	6 6	54	90	_	11	_		-	_
î	7	59	1.1	_	7.2	_	4	_	_	_	6	56	90	_	-6	_		-	•
1	14	29	. 9	-1	7.3	-	13.6	_	-	-	6	57	96	-	9	-		-	-
1	21 26	59 59	• B • 7	-	7.3	_	1 -	-	_	-	6 6	57 41	96 84	_	8 9	_		_	-
2	4	59	1.0		7.1	-		_		_	6	38	60	_	60				
Z	11	59	1.0	-	7.2	-	20.3	-	_	-	6	42	60	-	50	_		-	_
2	18	59	1.2	-1	7.3	-	-	-	-	-	6	42	70	_	13	-		_	_
2	25	59 59	3.2	-	7.0 7.1	<u>-</u>	-	_	-	-	6	43 48	66 58	-	15	-		-	-
3	11	59	2.2	-	7-1	_	13.0		-	_	6	51	6B	_	20 12	_		_	
3	18	59	. 9	-	7.1	-	12.5	-	-	_	6	38	52	_	50	_		_	_
3		59	3.5	- [7.4	-	i −i	-1	-1	-1	6	44	60	-	50	33		-	-
4	1 B	59 59	3.9	-	7 - 4	-	., =	-	-	-	6	45	66	_	40	12		-	-
4		27 59	6.5 7.2	-	7.4	_	17.2		_	_	6 6	46 43	64 62	-	60 25	1 8 2 8		<u>-</u>	_
4	22	59	В.В	10.6	7.3	1.7	14.5	_	-	_	6	42	64	10	25	33		_	_
4		59	16.1	9.0	7.2	1.3	21.7	-	-	- 4	6	41	62	8	35	25		- [-
5	6 13	59 59	12.1	7.7	7.2	1.4	10.1	-	-	1 - 2	6	32	68	10	17	20		-	2900
5	20	59	16.1	7.1	7.3	1.3 1.4	14.4 12.4	<u>-</u> 1	-	1.2	6	36 38	54 60	15 12	12 17	25 25		-	400 20000
5	27	59	10.1	8.1	7.5		11.1	-	-)	.3	5	41	60	8	22	21		_	1200
6		59	17.5	6.5	7 - 3		10 1	-	-	• 2	5	41	60	8	13	2 6		-	12000
6		59	22.4	4.4	7.1 7.3	1.7	16.6	-	-1	1.0	6	43	62	В	15	25		-	1400
6		59	22.0	3.8	7.3	.6 1.5	12.6	_		• 2	6	44	60	12	20	22		-	3100
	-					1.0	****	-	-1	• 3	9	7'	'4	12	18	ں و		-	1800
	44	77	22.0	3.8	٤.,	1.5	12.3	-		•3	6	47	72	12	18	3 0			_

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEW YORK

HAJOR BASIN

NORTHEAST

SUB BASIN

LOWER HUDSON RIVER

STATION LOCATION HUDSON RIVER BELOW

POUGHKEEPSIE. NEW YORK

	ATI			DLEWOLVED		_		CHLOSSE	DEMAND	AHHOHA								TOTAL	
Ě	ă		(Dogram Contigrado)	CXYSSA ===/1	افو	E.O D. ==g/l	-4 /1	1-HOUZ mg/l	24-HOUR ===/1	HETBOSEN Mg/I	mg/l	ALEALINETY mg/l		COLOR (code mits)	TURNOTTY 	ELLATM No./I	PHOSPHATES	SENSOLVED SOLIDS mg/1	per 189 ml.
7 7 8 8 8 9 9	5 20 27 5 12 18 26 29 23	55555555555555555555555555555555555555	29.0 23.8 24.8 - 25.6 25.6 26.4 26.8 27.0 23.2	3.7 4.6 	7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3	1.1	16.1 16.9 16.9 17.0 19.4 23.7 21.0 14.5 20.4	.4 .5 .1 .6 .6 .7 .7 .4 .6 .1	2.7 2.9 3.2 2.9 3.2	7.5 .8	6 6 6 6 6 6 6 6 9 12 12 11 14	45 45 44 42 45 45 41 46 46 42	68 62 60 68 70 68 72 68 80 76	18 19 20 18 16 16 8	15 9 8 9 10 14 12 11 16	20 20 18 14 21 20 		102	7600 - *1000 500 100 360 *100 2900 18000

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MASSACHUSETTS

MAJOR SASIN

NORTHEAST

BUB BASIN

MERRIMAC RIVER

STATION LOCATION MERRIMAC RIVER ABOVE

LOWELL, MASSACHUSETTS

DATE OF FAMILE	.						CR.0404	PELLAND	AMMONIA								TOTAL	
-	- -	Tiele Dograda antigrada)	DATACHAN DAYAGA mg/l	-11	6,0.D =4/l	COD ■ /I	1-HOOL	24-HOUR mg/l	HETROGEN =4./1	mg/I	alkalbetty ===/i	HARDNESS mg/l	cotos	TURNATTY (seeds make)	EAJATM —g/I	HIGHHATE Hg/l	EQUEDE EQUEDE ENG/I	per 100 mi
10 6 2 2 3 1 1 1 3 2 4 2 3 3 4 1 5 5 2 5 5 2 7 6 6 6 2 2 7 3 5 5 2 7 7 2 2 7 5 8 8 10 5 8 17 5 8 8 10 5 9 8 2 4 5 9 9 1 4 5 9 9 1 4 5 9 9 1 4 5 5 9 1 4 5 9	33555555555555555555555555555555555555	15.0 1.0 1.0 5.0 6.0 7.0 4.5 10.0 16.0 113.0 16.0 113.0 122.0 221.	6.6 10.7 12.1 12.6 12.0 11.5 10.8 9.1 8.1 9.9 6.6 6.0 7.4 6.2 5.7	733355757577585405668 - B8 - 76457	1.0 4.0 4.1 3.4 2.3 2.2 2.3 1.7 1.7 1.7 1.1 2.0 2.2 7 3.0 9 1.6 1.0 -3.3 2.0 7 1.9 1.6 1.0 -3.3 2.0 7 1.7 1.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	36.0 18.4 21.2 40.8 16.0 13.6 16.0 18.0 18.0 17.6 24.0 21.6 24.0 20.8 21.6 24.8 22.4 24.8 24.8 24.8 24.8 24.8 24.8	99.99.88 1.00 4.33 1.44 1.22 2.4 4.00 1.00 1.00 1.00 2.7 1.5 1.00 2.7 1.0 2.7 1.0 2.7 1.0 1.3 2.0 1.0	9.5 2.0 3.2 3.0 12.4 5.6 7.2 8.6 7.0 5.6 7.0 5.0 11.0 12.0 13.0 12.0 13.0 12.5 10.0	2.7 1.5 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	13 11 10 	15 10 6 7 7 7 4 2 5 5 7 9 9 11 10 13 9 9 15 15 14 16 17 16 17 15	26 20 14 12 10 118 14 26 14 16 17 18 20 21 21 21 21 21 21 21 21 21 21 21 21 21	47 35 38 44 40 32 30 36 45 45 50 60 55 60 70 70 50	65 147 31 80 347 810 30 157 89 7 67 32 11 98 20 125 20 15 21 8	11 10 10 7 5 6 7 7 8 10 10 10 10 10 10 10 10 10 10 10 10 10		874750631445507366746255577 79 0 984 15745674625556676755577 79 0 984 15798	

STATE

LOUISIANA

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

NIBAB ROLAM

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER MISSISSIPPI-NATCHEZ TO GULF

STATION LOCATION MISSISSIPPI RIVER AT

NEW ORLEANS, LOUISIANA

	DATI		1949	DEMOLVED				CALORNA	PENAND	AMMONIA						_			
- Huyon	à		(Dagrate Capthyrade)	0377 98 H =4L/1	pěl	≛ O.D. ■4/1	COD ■4/1	1-HoUR	34-HOUR mg/l	NETROOM Mg/I	CHOMPES mg/l	ALFALINITY ===/1	HARDHING mg/l	COLOR	TUBBLETTY (reads maller)	mg/l	PHOSPHATES mg/l	TOTAL DISPOLVED SOLED! mg/l	COLIFORMS per 100 mi
10	2	50	_	-	7.9	_	13.7	2.4	10.8	2.6	27	105	139	15	455	42		221	1500
10	2	50	-	-	B.O	-	10.0	2.0	9.4	3.2	25	101	133	15	268	40		218	500
10	16	34	-	-	7.9	-	4.5	1.7	7.1	3,0	22	108	139	15	170	45		216	500
10	23	58	-	\ -	7.7	-	5 . 4	2.4	1.6	3.6	23	115	147	15	150	45		233	3200
10	30	54	_	-	7.9	-	<u></u> 4-5	2.0	6.4	3.2	23	124	155	15	54	56		247	330
11	6	24	-	-	B. 6	_	4.7	2.3	4.7	2.2	28	130	168	15	52	57		266	1600
11	13	54 58	-	-	8.2 8.2	, -	••1	2.6	4.7	1.6	29	135	173	15	34	57		276	
11	20 26	54	-	_	8.0	1:4	4.0	2.6	5.1 5.5	1.6	29 32	146 145	154 184	15 15	44	66 65		303 306	300
11 12	4	54	_	_	8.1	1.7	12.6	3.6	11.1	1.6	23	111	139	15	34 132	5 9 5 3		236	360
12	1	1	_	_		_	1 *** 9	,		1 1 2	_	111	137	1 12	132			236	1100
12	11	54	_	_	5.1	1.6	12.4	3.3	12.2	1.6	26	109	157	15	197	57	1	246	1100
12	16	5-8	_	_	В. В	2.3	11.0	3.0	10.9	1.4	30	111	149		107	49	, ,	232	-
12	29	50	_	_	B.7	2.1	8.1	3.6	9.0	3.2	32	115	173	15	36	56	! !	281	_
1	2	59	_	_	8.5	2.5	11.9	2 - 4	9.1	3.4	32	124	168	15	3.5	55	1	270	-
1	9	59	-	-	8.4	2.4	10.5	4.0	10.2	3.2	35	146	187	15	38	46		288	400
1	15	59	-	-	8.0	2.3	8.3	3 - 5	9.6	3.2	28	150	184	15	52	4.5		268	180
1	22	59	-	-	8.0	-	13.0	5.5	11.3	3.6	34	129	176	15	91	58		267	230
1	29	59	-	l -	7.9	2.5	17.0		14.1	3.4	30	113	153	15	248	48	l l	242	300
2	5	59	-	-	7.∎	3.0	34 : 4	6 • 2	18.7	.8	22		107	15	535	36	ł I	170	A-
2	12	59	-	-	8,6	1.7	26.9	3.8	15.4	1.6	17	73	107	15	620	37		174	490
2	19	59	4.5	i	8,4	3 . 6	16.4	4+2	16.6	2.3	17		109	15	363	3 4		166	760
2	26	59	7.5	9.0	8.0	2.2	32.1	2.3	8.6	1.8	18	79	115	15	465	38		179	4100
3	5	39	-	9.2	7.6	2.4	21.4	2.1	6.7	2 . 8	17		107		535	36		167	3600
3	13	>-		9.0	7.7	1.7	16.9	2.4	7.1	2 • 4	19	78	112	15	230	36	1	176	400
3	19	59 59	7.5	8.7	7.7 8.1	1.5	26.6	1.7	5.2	3.2	21	71 90	124		250 250	42	}	199 205	360
3	26	59	_	8.1	8.0	1.4	17.0	2.0 2.2	4.6	1.8	19		130	15	215	42 46	Ì	213]
4	6	59				_	11.00	212	7.0	1.0	1 -		1 20	_	215]	1	213	44
	9	59	8.0	7.3	7.8	1.2	22.7	1.8	5.6	1.2	18	1	1	1	230	43		207	72
7	13	59		'*-	1 ''-		_	_ ` -	'''		1 -		1 -	. 1		1 7	1	1	800
T.	16	39	7.5	7,0	7.7	. 5	30.3	. 6	3,4	1.2	16	100	135	15	555	4.2	Ì	200	_
4	23	59	7.0	7.2	7.9	8	22.5		3.9	1.4	26				285	4.5		224	66
4	30	59	5.0	7.4	0.3	. 6	17.8				26		138		180	44	1	217	1000
5	7	39	14.0	6.9	7.8	. 4	18.6		3.9	1.0	18				145	4.3		201	670
5	14	59	16.0	6.2	7.6	.7	23.6		2.6	5.4	18				250	44		217	1400
5	21	57	14.0	6.2	7.9	1.6	14.0	1.3	4.6		20	111	154	15	130	54	.}	245	1200
5	25	59	-	_	_	-	-	-	-	-	-	·\	-	-	-	-	1	-	2900
5	28	59	16,0	5.9	7.9	14	29.4		2.2	1.0	26	111	154	15	395	5.5	1	241	-

STATE

LOUISIANA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

BUB BASIN

LOWER MISSISSIPPI-NATCHEZ TO GULF

STATION LOCATION MISSISSIPPI RIVER AT

NEW ORLEANS, LOUISIANA

STATE

MISSISSIPPI

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BABIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUS BASIN

LOWER MISSISSIPPI-YAZOO RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

VICKSBURG: MISSISSIPPI

	DATE		THAP	DEMOLVED				CHORNE	DHILAND				_					TOTAL	
-	PA.	TAAA	(Degrees Configurate)	COCYGUEN mg./I	He	nob mg/l	E.O.D. ≡g/1	1-HOUR PE/I	24-HOUS	AMMONIA- HITEOGEN Mg/I	=#/I	ALEALIMITY ===/I	HAMDHES mg/l	(resp dept)	TUBBLETY (cale units)	#####################################	PHOSPHATES ===/I	PUROLVED SOUTHS Mg/T	per 100 ad.
10	•	38	28.1	5.8	6.6	1.1	12.1	2.7	7.9	.4	17	81	80	_	240	34		142	-
10	20	50	24.8	7.6	7.6		23.0	.7	8.7	. 6	19	116	168	_	168	60		Z70	_
10	27	56	22.9	7.8	7.3	1.6	22.1	2.1	10.6	. 8	22	122	172	ļ -	240	60		291	_
11	3	58	18.1	8.4	7.8	1.6	19.4	1.4	7.4	.5	14	81	112	-	190	62	!	321	#1
11	10	58	15.0	9,0	5.2	1.7	18.1	1.6	7.4	. 6	23	132	172	-	110	63		295	-
11	17	58	16.9	8,8	7.4	1.6	12.0	. 9	6.2	.6	23	136	184	-	105	64	1	326	-
11	24	25	16.0	9.1	7.4	1.8	12.5	1.1	6,8	,6	22	139	179	-	220	54		281	-
12	1	55	10.8	9.6	7.4 7.5	1.9	10.1	9	6.4	• •	23	141	175	-	250	56		Z 9 0	-
12	8	25	8.0	9.5	7.5	1.7	19.9	1.1	6.5	• 4	23	137	171	· -		52		Z 6 0	_
12	15 29	56	3.U 5.Q	11.6	7.3	1.4	20.1	- 4	6.1 5.8	-4	23	134	165	l <u>-</u>	125	5.5	1 1	254 310	_
12	27	59	3.8	11.1	7.3	1.2	15.1	•5 1•7	7.1	•6	22 16	136 136	161 178	-	120 95	53 48	1	162	540
,	13	39	4.5	11.1	7.3	114	13.5	1.5	6.9		22	132	174	-	120	58		184	P-0
1	20	59	6.0	10.4	7.3	1.5	14.4	1.6	6,9		22	135	163	-	140	58	1	201	_
- 1	26	59	6.0	10.4	7.3	1.5	14.3	1.1	7.0	4	22	138	161	_	240	60		215	-
3	9	59	8.0	9.4	7.2	3.2	22.1	1.1	6.4	.6	12	82	B2	_	340	37		211	_
3	16	59	8.5	9.1	7.4	3.4	8.4	1.5	6.6		14	77	84	_	325	Ăi.		215	_
•	23	59	8.9	8.9	7.3	3.2	4.6	1.2	5.8	7	18	12	91	_	310	39		220	_
3	30	59	8.8	8.6	7.4	2,8	5.4	1.4	5,8		22	80	90	1	275	40		190	_
4	6	59	14.2	7.8	7.4	1.6	4.4	1.4	6,1	.6	21	79	95	_	290	3.8		205	_
4	13	59	15.5	7.8	7.2	1.5	3.1	. 9	4.9	. 8	22	81	84	-	350	33	1	215	-
4	20	59	17.2	7.6	7.4	1.5	3.4	. 5	3.9	.6	22	84	86	-	205	27		210	_
4	27	59	18,6	7.4	7.4	1.6	3.3	1.2	4.4	. 6	22	82	84	-	150	27	l	185	_
5	4	59	20.0	7.4	7.3	1.8	3.2	. 9	3.8	. 8	22	86	94	-	240	41	ľ	227	-
5	11	59	22.5	7.2	7.4	1.4	4.2	1.1	3.7	. 5	22	84	102	-	250	52		221	96
5	18	59	23.1	7.1	7.4	1.2	4 . 1	1.1	3.9	. 8	22	56	100	-	280	45		215	-
5	25	59	25.0	5.8	7.4	1.2	3.9	. 9	3.8	. 6	22	92	98	-	300	49		220	1200
6	1	59	25.0	6.7	7.4	1.2	3.8	1.2	4.1	. 8	22	102	151	-	300	53	1	215	17000
6	8	59	24.8	4.6	7.4	1.1	3.5	1.4	3.8	. 8	22	102	150	-	280	52		205	37000
6	15	59	25.1	3.8	7.4	1.2	4.2	1.3	4 . 1	, 8	22	100	145	-		51	1	195	35000
6	22	59	26.2	4 . 4	7.3	1.1	6.2	. 8	3.1	.6	17	8.8	141		270	44		190	_
6	29	59	26.4	5.2	7.4	1.4	6.1	. 6	3.4	, 6	17	91	134	1	250	38		185	_
7	6	59	27.5	6.2	7.4	1 • 4	8 - 21	1.2	4.1	. 8	21	91	135		240	35	1	210	11000
7	13	59	27.8	6.8	7.3	1.1	9.8		3.6	. 8	21		132	1	270	3 9		205	1000
7	20	59	29.4	6.6	7.4	1.4	12.2	1.1	4.0	• 3	16		124	1	280	44	1	214	11000
7	27	59	30.1	6 . B	7.2	. B	12.4	1.1	4 . 2	.3	19		1		240	36		215	60000
8	3	59	29.8	6.8	7.2		14.6	. 9	3.4	. 5	21	_	94	1	210	34	'	185	-
9	10	59	30.1	6.8	7.4	1.1	9.9	1.1	4.0	. 4	16	1	104	1	240	41		208	_
8	17	59	30.4	6.B	7.3	1.6	12.4	1.6	3.4	• 6	21	100	124	· -	240	3 0		105	<u>-</u>

STATE

MISSISSIPPI

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUE BASIN

LOWER MISSISSIPPI-YAZOO RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

VICKSBURG. MISSISSIPPI

	DATE F LAM							OLOGIA	DENAMO	AMMONEA								TOTAL	
- LLACA	,	3	Titule (Degrees Configurable)	DESTRUCTION CONTRACT Mag/I	, H	±0 t. →2/1	CO3	1-H004 /1	34-HOUZ mg/l	HITROUGH HITROUGH	GROUPS	ALKALIMITY ===/1	HAPPNESS Ag/I	COLOR 	(Marotty (acate smith)	SULFATES -J/I	PHOSPHATES	DURACIL/VED BOLIDS mg/l	per 100 mi
8 8 9 9	24 31 8 14 21 28	55 55 55 55	29.4 29.8 29.4 28.8	6.6 6.4 6.4 6.5 6.8 6.6	7.3 7.4 7.5 7.3	1.7 1.1 1.5 2.1	11.2 11.2 12.5 14.1 14.8 13.2	1.1 .6 1.4 1.3	3.9 4.1 3.2 3.7	.8 .6 .8	21 20 22 19	94 95 94 94	124 123 121 117	-	210 205 240 245 220 250	41 39 41 48		210 188 216 194 210 205	

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ARKAMSAS

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BABIN

LOWER MISSISSIPPI-CAIRO TO HELENA

STATION LOCATION MISSISSIPPI RIVER AT

WEST MEMPHIS. ARKANSAS

	DATI			DEMOLVED				CHOOL	DEMAND										
- HEADER	¥	¥	THAP (Degrees Cassignade)	DITTERN	p#I	■ o D == /i	COB/I	1-HOUE	I4-HOUR	AMMONEA- PITTIPOGEN May /1	CHOMON mg/l	ALKALIMITY mg/l	HARDHESS mg/l	COLOR	TURNSDITY (seeds emile)	MUATE M/I	PHOSPHATES	FOTAL DESCOLVED SOUDS mg/l	COLFORNI per 190 ml.
10	6	58	20.1	7.7	7.8	•6	_	1.1	3.2	•2	14	108	154	5	260	39		302	28000
10	13	58	21.0	7.3	7.8	• 7	11.2	1.4	9.7	• 2	12	110	164	7	190	41		242	54000
10	20	50	19.2	7.7	7.8	• 5	8.0	1.3	3.5	•1	13	104	172	7	210	50	l i	270	20000
10	27	58	17.3	8,0	7.9	1.5	15.4	1.6	2.4	.3	15	116	176	10	145	63		204	17000
11	3	58	15.2	9.1	7.7	1.1	1	1.5	2.4	• 3	17	114	172	3	20	53)	274	20000
11	10	58	13.5	9.6	7-6	1.6	13.3	1.3	4.3	• 3	17	112	174	10	140	66	l i	304	2400
11	17	58 58	17.0	9.1	7.6°	1.1	11.5	1.4	5.8	• 2	21	132	190	7	100	81	l I	2 98	9000
11	24	56	14.1 9.2	9.9	7.5	1.5 2.1	16.5	1.6	5.3	. 2	19	104	160	15	200	34	!!	246	7000
12	1	58	7.8	10.2	7.5	1.5	12.7	1.2	5.4	•2	20	104	154	20	320	41		218	11000
12	15	58	3.2	11.5	7.5	1.5	12.6	1.1 1.3	5.7	•1	22	102	166	15	75	47		262	37000
12	22	58	4.0	12.5	7.5	1.0	12.7		5.4	•1	24	98	176	15	50	59	1	295	-
12	29	58	4.4	12.4	7.5	-	12.7	.6	3.1	•1	20	122	172	15	70	31	[272	-
1 2	5	59	2.2	12.8	7.6	_	12.8	1.7	3.9	•2	19 21	122	172 174	10	25	39) [260	31.00
1	12	59	2.4	12.9	7.5	. 5	11.8	.6	3.5	.1	20	122 100	1/4	1 7	20	44 60	\	246	3604 9404
î	19	59	3.9	12.6	7.5	1.4	14.1	.3	1.4	.3	17	94	142	25	120	58		264 226	10000
1	26	59	4.1	11.8	7.4	1.5	19.7	.3	9	1	19	76	128	17	700	36) '	198	5400
Ž	2	59	3.9	11.9	7.5	1.0	18.5	. 6	2.1	.2	l	60	102	20	550	36)	172	1200
ž	9	59	4.8	10.6	7.3	. 9	16.3	. 9	4.5	3	11	32	102	20	230	31]	200	2100
Ž	16	59	5.5	10.3	7.5	1.5	23.3	. 4	1.0	.4	13	70	144	15	550	45	l i	230	13000
2	23	59	6.1	10.5	7.5	_	37.5	_	_	2.6	10	56	102	12	410	34		178	510
3	2	59	6.2	10.4	7.5	.8	20.9	• 3	.6	1.9	a	62	106	17	230	26		158	420
3	9	59	7.6	9.7	7,5	1.2	27.4	. 3	. 6	3.6	6		130	17	230	37		206	
3	16	59	7.8	10.8	7.5	2.6	26.2	• 1	.5	3.9	12	8.2	141	17	275	41	(196	
3	23	59	8.4	10.4	7.5	1.8	25.4	. 0	.5	3.6	11	90	144	17	160	40	(226	4200
3	30	59	10.6	9.4	7.5	2 • 3	30.6	. 3	.5	4.2	11	98	148	18	3 3 0	34		214	640
4	6	59	13.4	8.5	7.4	2.7	35.4	• Z	, B	2.8	11	100	146	17	500	40		278	3500
4	13	59	12.8	8.2	7.4	2.0	27.7	. 9	1.4	1.6	10	90	137	14	350	39		222	2204
4	20	59	14.9	B . 4	7.4	1.4	30.3	. 6	. 8	2.5	10	76	138	12	230	43		212	720
4	27	59	15.5	8 • 4	7.5	1 • 2	25.5	. 8	1 - 1	1.0	10		130	10	170	39		196	450
5	4	59	19.1	7.5	7.5	1.3	26.7	- 4	.7	.9	10	,	140	14	370	42		220	14004
5	11	59	20.6	7.0	7.6	. 7	22.5	- 4	. 7	• 1	10		13B	12	200	47		260	44 DI
5	1 B	59	21.1	7.1	7.5	2.1	28.7	. 4	1.5	• 5	12	1	155	13	500	46		264	19000
5	25	59	22.2	6 . B	7.5	1.3	22.0	. 6	. 8	. 9	10		150	16	380	39]	250	11000
6	1	59	23 5	5.7	7.5	• 7	50.6	. 5	. 7	. 6	11	83	142	13	655	35	Į į	228	56000
6	В	59	25.1	5.9	7.7	1.1	38.0	. 6	. 8	. 9	11	90	154	17	850	41	i	242	13000
6	15	59	25.2	6.3	7.0	1.0	46.7	• •	. 6	1.0	12		144	17	950	36		220	23000
6	22	59	26.7	6.3	7.8	2 • 2	23.6	- 5	. 8	1.7	11	114	159	13	360	41		270	42000
6	29	59	28.0	6.5	7.8	1.0	12.5	. 5	1.5	. 3	14	118	158	15	240	49		182	12000

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ARKANSAS

MIEAE FOLAM

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER MISSISSIPPI-CAIRO TO HELENA

STATION LOCATION MISSISSIPPI RIVER AT

WEST MEMPHIS ARKANSAS

МТ						CHLORNE	MMAND	AMMONEA					TURNIOTTY	RALIATIN	PHOSPHATES	TOTAL	COLITORAL
DA FOREST	Tisti Pagerte Carigosia	DESERVITED	H44	±00 ■/I	 /1	1-HCM/R unp/l	34-HOUE mg/l	HETELOOGH mg/l	CHOURES	ALKALINITY Pog/1	HARDNESS mg/l	COLOR	-	mg/1	mg/I	FOLIDI FOLIDI	per 100 mL
7 6 59 7 13 59 7 20 59 8 3 59 8 10 59 8 17 59 8 24 59 9 14 59 9 14 59 9 21 59 9 28 59	28.1 27.0 30.0 28.6 27.1 28.9 28.8 29.1 24.5	6.5 6.0 5.9 6.5 6.5 5.8 6.5 7.0 7.1 6.7	7.9 7.9 7.9 8.0 8.0 8.0 7.8 7.7 7.9 7.9 8.0 7.9	1.1 .9 2.4 .9 - .9 .8 .8 .7 .6 .8 .5	16.0 37.2 62.7 33.2 18.5 20.0 13.0 19.3 13.6	1.1 1.7 1.6 1.6 1.3 1.0 1.3	3.0 2.3 3.6 3.6 3.6 2.9 2.9 3.5 4.1 3.4 2.9	1.3 1.4 2.5 1.3 1.8 1.3 1.3 1.3 1.1	16 13 10 10 14 26 16 13 11 14 14 14	72 74 62 103 93 104 106 108 110 110	166 164 141 138 145 166 144 124 149 148 158 178	13 13 16 13 8 7 7 16 12 13 13 12 12 10	120 850 1200 650 185 1200 600 600 170 110 180 150	56 81 37 47 49 58 46 83 56 62 69		270 256 256 246 246 212 254 254 306	39000 19000 9280 8000 39000 27060 - - 19008 23860 24080 24080

STATE

MI 5 SOUR I

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

UPPER MISSISSIPPI RIVER

SUB BASIN

MISSISSIPPI-CAPE GIRARDEAU AREA

STATION LOCATION MISSISSIPPI RIVER AT

CAPE GIRARDEAU, MISSOURI

_	DATI		Т	DURIGHVED				CALCROS	PHANE					Γ					
Ē	à	3	(Dugrass Consignate)	DOLYGON mg/l	1	■ 0 D. ■ <u>**</u> /I	co.s . = /l	1-Hotel mg/l	24-HOUTS ==_/1	AMMONIA- MITROPEN mg/l	○Lot⊕E ==/1	ALEALDHTT =13/1	HAEDHIRE mg/l	COLOR (next mile)	TUBBLEDITY reads control	RAVATES ===/I	PHOEPHATES mg/l	HOLDS HOLDS	per 100 mi.
10	6		19,0	•	7.7	_	80.0	-	_	_		112	200	_	500				
10	13	56	19.0	-	7.8	-	-	-	-	_	15	124	228	_	220	-		_	.
10	20	58	19.0	i -i	7.7	-	-	-	-	-	14	124	210	-	340	_		_	-
10	27	58 58	17.0	-	7.9	-	-	-	-	-	16	104	230	-	140	-		-	-
11	3	58	14.5 12.0	-	7.9 7.9	_] ,, ,	-	-	-	18	140	250	15	140	136		284	
11 11	10 17	58	13.0	-	7.7		27.0	-	-	_	25	166	220	-	140		1		-
11	24	58	13.0	-	7.7	_			-	_	25	94	196	20	220	84		216	•
12	ì	50	7.0	_	7.9	_	1]			_	25 20	136	170 168	15	460 300	64	1	256	_
12	1 3	58	5.5	_	7.7	_	18.9	_	_	_	25	122	212	_	140	_	1	_	
12	15	58	3.0) <u>-</u>)	7.7	-	_	'	_	_	29	186	228	_	120	_	1	_	_
12	22	58	4.0	-	7.7	-	-	-	-	_	28	182	224	-	120	_	l	_	٠.
12	29	58	5.0	-	7.7	-	1 -	-	_	_	31	202	246	15	65	142]	346	
1	5	59	3.0	-	7.7	-	-	-	-	_	29	170	230	-	120	_	!	_	
1	12	59	3.0	-	7 . 7	-	19.1	-	-	-	30	180	228	-	120	-	1	- 1	
1	19	59	2.5	(-	7.7	-	-	-	-	-	30	174	224	1	120	-	Į į	_	
1	26	37	3.0	-	7.7	-	-	-	-	-	32	150	226	-	120	-		-	•
2	9	59 59	3.0	-	7.7 7.7	_	1 1	-	-	-	22	148	178	-	120	-		-	
2	16	50	3.0		7.5	_	44.2	-	-	-	27	116	170		140	-			•
2	24	59	4.0	-	7.7	_]	_	_	_	22	90	136	22	860	92		260	
3	2	59	7.0	-	7.5	_	1 1	_			15 17	96 78	140 142	-	420 220	_		-	
3	9	50	6.0	_	7.5	_	41.0	_	_	_	19	86	124		260	_		_	
3	16	59	6.0	_	7.5	_	1	_	_	_	15	92	124	-	260	_	1	_	
3	22	59	8.0	_	7.7	_	\	_	_	<u> </u>	16	120	170	1	300	_		_	
3	30	59	9.0	_	7.5	_	-	_	_	_	15	120	160		460	_		_	
4	6	59	10.0	_	7.7	-	\ _	_	_	-	15	110	170	1	540	_		-	
4	13	59	10.5	-	7.5	_	-	-	_	_	14	94	152	-	380	_		-	
•	20	59	14.0	-	7.7	-	-	-	-	-	15	120	180	-	220	-	1	-	
4	27	59	15.0	-	7.7	_	-	-	-	-	15	122	178		540	-]	-	
5	4	59	15.0	\ - }	7.7	-	-	-	_	-	17	132	178		260	-	1	-	
5	11	59	21.0	-	7.7	-	40.7	-	_	-	20	132	186		300	-		-	•
5	18	59	19.0	-	7.7	-	1 7	_	_	-	16	130	170		1080	-		-	•
6	1	59	22,0	_	7.7 7.7	_		_	<u> </u>	_	15 15	110	186	1	540 760	- -		-	
6	8	59	23.5	_	7.7	_	93.0		_	_	13	108	166 142		1720	-		_	
6	15	59	25.0	_	7.5		נייי	_	_	_	17	134	172		640	_		<u>-</u>	
6	22	59	26.5	-	7.7	_	1]	_	_	_	21	154	188		220]]	
6	29	59	28.0	_	7. 1	_]	_	_	_	28	150	206	1	220	-		_	
												1.70				<u> </u>		l	

MISSOURI

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SUB BASIN

STATE

UPPER MISSISSIPPI RIVER

MISSISSIPPI-CAPE GIRARDEAU AREA

STATION LOCATION MISSISSIPPI RIVER AT

CAPE GIRARDEAU. MISSOURI

DATE OF SAMPLE						CHLOEN	DEMAND	AMMONIA								TOTAL	
THE AND THE	TBM Program Configurate	DESOLVED COTTORN mg/1	P #1	E.O.D. ≃e/l	= 00	1-HOUR mg/l	24-HOUR mg/l	HITTED STEN	-mg/1	AUKALDUTY mg/l	HARDNESS mg/l	COLOR	TURNIDITY	PULIATE mg/l	PHOSPHATES mg/l	DISSIDLAND SOURS mg/I	per 100 ml
7 6 59 7 13 59 7 20 59 7 27 59 8 3 59 8 10 59 8 17 59 8 31 59 9 14 59 9 21 59 9 28 59	26.0 27.0 27.5 28.5 27.0 28.0 29.0 29.0 28.0 23.0		7.9 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		72.9	- - -			19 18 16 20 24 19 15 24 21 20 20 24 18		162 152 180 200 200 188 170 186 192 200 184	-	340 1269 500 380 180 300 220 340 220 140 260				-

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ILLINOIS

MAJOR BASIN

UPPER MISSISSIPPI RIVER

SUB BASIN

MISSISSIPPI RIVER-ST. LOUIS AREA

STATION LOCATION MISSISSIPPI RIVER AT

EAST ST. LOUIS, ILLINOIS

	DATI		TRACE	DESCUVED				CHORNE	DELLAND										
HE MOS	ă	_	(Dogram Cardig and a)		p#f	L.O D ■¶_/I	co n ≔ _/1	1-HOUR mg/l	34-Hout Hg/l	AMMONIA. HETTEDBEN mg/l	=#/I	ALKALENETY mg/l	HARDNES HIJ/I	COLOR (made mate)	TURNADITY (heads scribt)	SUATE ===/I	PHOSPHATES:	mg/) HOLDH HOLDH TOTAL	COLIFORMS per 100 ml
10	6	58	18.5	_	7.9	-	-	3.8	10.3	_	15	150	178	32	140	60		274	5800
10	13	38	18.0	-	7.8	-		3.2	10.4	1.9	15	136	166	29	250	50		267	8000
10	20	58 58	18.0 15.5		7.8 7.8	-	19.3	3.6	13.0	2.4	19	156	192	27	115	70		287	11000
10	27 3	20	13.6	_	7.0	-]	3.8	8.7	2.5	18	162	192	30	75	65		267	4300
11	10	56	12.0	_	7.8	_]	4-1 4-2	10.8	2.3	18	158	178	30	70	65		274	13300
11	17	58	13.1	_		_	18.6	3.9	10.3	4.2	17	158	184	33	100	68		234	19300
ii	24	30	12.0	_	7.7	_	10.9	3.5	11.2	3.7	18 15	158 140	182 166	34 43	140 150	65 60		267 233	68000
12	1	58	6.0	-1	7.8	-	-	4.7	11.9	4.7	17	146	192	60	60	66		270	5300
12	8	58	3.5	-	7.7	_	-	3.5	9.6	6.0	18	164	192	50	40	68		262	7800
12	15	50	1.0	- '	7.9	-	21.7	5.4	12.6	5.0	15	146	200	30	50	70		243	.500
12	22	56	1.0	- 1	B.O	-	-	5.8	12.9	6.7	17	164	200	35	50	72		233	-
12	29	58	1.7	-	8.3	-	! -	5.5	12.6	6.1	18	182	218	30	60	65	Į l	276	_
1	. 5	59	. B	10.6	8.2	1.9	-	9.2	13.0	8.0	20	174	208	35	50	58		276	3800
1	12	59	1.5	12.5	8.0	4.5	23.9	7.1	14.1	в.0	19	174	200	35	47	55		250	6500
1	19	3.7	.6	10.8	7.8	2.4	1 7	9.1	14.7	10.5	28	194	224	33	55	67	1	343	5100
1	26 2	59	.5	13.2 12.6	7.6	4.5	1]	10.1 10.8	14.8	10.2	19	172	196	37	45	50		281	7000
2	9	59	1.8	12.5	7.4	3.1	1]	9.4	15.0 16.6	11.4 10.0	24	162	185	33	25	55		298	5100
2	16	59		11.1	7.3	7.B	39.7	9.0	15.9	9.7	22 11	158 82	184 96	34 35	35 450	51 33	[2 56 131	2200 7800
2	24	59	1.0	9.7	7.5	7.7	′′•′	13.2	16.4	13.0	16		128	40	225	44		196	7400
3	Ž	59	2.5	8,3	7.2	5.5	4	14.2	16.9	10.0	15	104	132	3.5	200	41		199	15000
3	9	59	3.2	9.2	7.5	6.5	26.4	14.5	17.1	13.0	16	118	140	1 -	225	50		212	5800
3	16	39	4.2	10.1	7.6	4,4	-	12.2	16.0	12.0	17	130	164	35	200	53		250	2300
3	23	59	4.3	10.B	7.6	5.0	-	11.2	17.0	10.5	15	140	184	35	275	59	l	260	4500
3	30	59	7.1	7.3	7.6	4.9	-	11.3	16.8	9.9	15	128	160	30	550	48		225	-
4	6	59	9.3	6.0	7.3	3.7	-	10.3	16.4	9.4	15	124	164	30	520	46		226	5100
+	13	59	9.1	7.6	7.4	2.5	38.7	5.2	12.2	6.5	14	128	172	32	425	54		249	5900
•	20	59	12.2	8 . 4	7.7	Z • D	1 7	3.7	8.4	2.5	18	160	204	33	150	75		297	2000
•	27	59	13.5	7.5	7.6	2.0	1 7	2.7	9.5	2.7	18	148	198	28	150	71)	269	2100
5	4	59	17.5 24.5	6.4	7.6 7.6	2.2	26.3	2.7	11-4	2.5	17	154	194 186	26	300	70 68		281	3000
5	18	59	17.5	6.8	7.6	4.2	20.3	2.4 2.7	14.4	2.5	17 18	136 150	192	34	1000	56	{	267 26 9	9700 3300
51	25	59	20.2	5.5	7.5	2.5]	2 . 4	13.0	1.6	15	140	184	30	800	53		241	8000
6	1	59	23.2	5.3	7.5	2.5	1]		13.0	1.5	16	140	200	_	650	57		225	2300
6	ē	59	23.5	-	7.6		32.3	2.8	16.3	1.4	14	146	168	1	500	57		233	5800
6	15	59	24.5	6.6	7.7	1.8]1	2.2	13.8	1.2	13	160	192	_	225	56		240	4800
6	22	59	25.5	6.3	7.9	2.2	1 -	2.6	11.0	1.3	17	176	204		110	70		314	13000
6	29	59	26.9	6.5	8.0	2.0	-	2.0	11.2	1.4	15	172	212	25	65	51		289	2600
-0	24	27	20.9	•••	0.0	Z.U	oxdot		11.2	1.4	13	112			65	1 1		209	

ATAG DRAG YTLLAUD RETAW

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ILLINOIS

MAJOR BASIN

UPPER MISSISSIPPI RIVER

BUB BASIN

MISSISSIPPI RIVER-ST. LOUIS AREA

STATION LOCATION MISSISSIPPI RIVER AT

EAST ST. LOUIS, ILLINOIS

MII OF LAWYS		DESCRIPTION	_			CHLORING	PENAND	AMMONIA								TOTAL	
1 3 E	TEMP (Degrana Configurate)	CXYEEN CXYEEN	p#1	8.0.B. ■#/I	c.o.s		34-HOUZ mg/l	HITEOGEN mg/l	CHLORIDES	ALKALINITY	HARDNESS =g/l	cotos	TURNINITY (seeks walks)	SALATE mg/l	PHOSPILATES Pag/I	DIMOLVED BOLEDS Mg/I	COLIFORMS
7 6 59 7 13 59 7 20 59 7 27 59 8 10 59 8 17 59 8 18 59 9 14 59 9 14 59 9 21 59 9 28 59	25.9 26.0 26.5 26.3 33.5 25.5 28.3 27.0 23.2 21.4 22.0	5.7 6.2 6.0 6.5 6.1 5.7 6.4 6.8 7.0 7.6	7.7 7.8 7.7 7.9 7.5 7.8 7.6 7.7 7.7	1.7 2.1 2.9 3.6 3.5 2.3 2.6 1.8 2.1	23.6	Z.4 2.4 2.6 2.6 -	9.2 8.2 7.8 8.4	1.3 .5 .5 .4 3.5 1.8 1.5 1.5 1.5 1.0	16 14 13 15 22 18 14 15 17 14 14 16	144 122 148 154 150 128 98 130 148 134 128	184 144 174 180 172 128 156 174 164 168 156	22 33 23 23 20 24 25 25 25 27	175 400 100 35 450 160 100 100 08 125 200	446151408 500 488 446444		258 2247 256 256 256 256 256 254 254 254	11000 13000 21000 \$500 11000 14000 14000 24000 21000

IOWA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BABIN

STATE

UPPER MISSISSIPPI RIVER

SUS BASIN

MISSISSIPPI-DES MOINES-SKUNK RIVERS

STATION LOCATION MISSISSIPPI RIVER AT

BURLINGTON. IOWA

	DATE	u	17844	DIMINOLVED				CHOtel	DEMAND	AMMONIA.									
HE ST	PAY	YEAN	(Carrier Carrier		H	1.0.0 -4 /1		1-HOUE	24-HOUR mg/l	HETELOGISH mg/l	CHLORIDE	ALFALBATTY Pag/I	HARDHAMS mg/l	toros	TUBLISTY (code solid)	MUATES ===/1	PHOEPHATES mg/l	TOTAL DESOLVED SOLIOS mg/l	COLPOBILE per 109 ml.
10 10 11 11 11 12 12 12 12 11 11 12 12 12 13 14 56	6 1 3 2 7 3 1 0 7 4 1 6 1 5 2 2 9 5 2 9 2 9 6 0 1 1 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	354 554 555 555 555 555 555 555 555 555	17.5 16.5 18.5 13.0 0.0 1.0 1.0 1.0 1.0		7.7 7.8 7.9 7.9 7.7 7.9 7.9 7.9 7.9		26.934.6327.7	-		.1 .1 .1 .1 .1 .1 .1 .1	9 9 9 10 10 10 10 10 10 	124 128 130 128 134 138 138 142 148 156	162 152 158 164 156 176 180 176 174	65 70 65 70 70 70 70 70 70 70 70 70 70 70 70 70	42 30 22 24 30 27 36 20 117				930 6600 2500 1600 2200 1200 7500 730 2500 1500 1500 1500 100 100 100

STATE

IOWA

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

UPPER MISSISSIPPI RIVER

SUB BASIN

MISSISSIPPI-WAPSIPINICON & TRIB.

STATION LOCATION MISSISSIPPI RIVER AT

DUBUQUE, IOWA

12 18 18 18 18 18 18 18	DATE OF SAMPLE	T	DHESOLVED				CHLORNE	DEMAND	AMMOREA					_		TOTAL	
12		-		p ě l			-		NITEDOSH	1			1	1		DEMOUVED	i
9 22 59 23.1 6.5 7.6 2.2 5.0 9 100 114 75 100 - 50	12	8 .8 .5 .66 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	13.4 13.1 11.8 11.7 11.4 11.2 10.5 9.8 9.2 7.6 7.6 7.6 9.3 12.0 7.4 8.1 8.9 7.4 7.0 6.5	5.00 7.97 7.85 5.00 5.00 5.40 5.10 5.40 5.10 5.40 5.10 5.40	4.8 2.7 3.9 3.4 7.2 11.6 7.2 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 11.6 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	10.57 20.77 9.72 6.01 6.01 6.03 6.01 6.03 12.07 6.05 12.07 6.05 12.07 6.05 14.07 6.05 6.01 6.05 6.01 6.05				998999988999999889999998899999988999999	122 128 134 134 148 148 148 149 142 142 142 142 142 145 165 105 115 118 118 118 117 110 120 117 110 98	146 152 148 146 154 154 152 152 157 159 905 116 128 111 124 128 129 128 111 114	75 78 78 78 75 75 75 75 75 75 75 75 75 100 240 150 100 100 100 100 100 100 100 100 10	200 200 200 200 200 200 200 200 200 200			25 44 5 60 48 8 8 38 38 55 58 100 320 120 250 20 10 920 110 55 160 880

ATAD DILAM YTLLAUD METAW

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MINNESOTA

MAJOR BASIN

UPPER MISSISSIPPI RIVER

SUS BASIN

UPPER PORTION UPPER MISSISSIPPI

STATION LOCATION MISSISSIPPI RIVER LOCK DAM #3 BELOW

MINNEAPOLIS, MINNESOTA

	DATI	_	1997	DEMOLVED					CHEAND					T					
н н	ž	TEAR	(Dagrees Cardgrade)	030Y98H mg/l	He	8.0 B. ■ 3 /1	cop ■ (1	1-HOUL	34-Hour mg/l	AMMONIA- NITROGEN mg/l	CHLORIDES mg/i	ALEALMITY mg/l	HARDNESS mg/l	COLDS	TUBBLETTY 	SEATES #E/I	PHOSPHATES stg/1	DOTAL DISSOLVED POLICY PRO/I	COLUPORALI par 100 mil
10	7	50	14.5	9.6	8.3	3.4	28.4	.5	11.9	2.4	9	136	147	35	25	12		200	1300
10	14	58	13.6	10.6	B • 2	4.2	26.7	.5	11.7	2.7	8	136	144	30	3	14		194	6300
10	21	50	14.5	8.3	8.2	4.1	28 • 9	. 5	-	3.2	9	136	146	35	35	13	1 1	203	3500
10	26	50	10.7	9.0	7.8	3.0	25.7	• 3	14.3	6.6	8	131	148	30	20	17	·	213	4200
11	4	56	10.2	7.8	7.9	3.2	26.9	• •	13.9	5.5	8	140	150	30	30	5	1 1	204	14000
11	10	58	6.6 7.4	9.5	B.O B.1	3.9	11.2	• 4	14.1	5.7	9	148	159	25	20	12]]	212	_
11	18	58	4.0	9.6 11.2	8.1	3 • 2 4 • 0	21.8 21.4	• 3	12.1	4.5	7	133	147	25	30	10		184	9000
11	25	58	• 2	13.2	8.1	3.7	24.1	-6	13.4	3.6	7	145	155	25	10	12	l i	200	7000
12 12	9	58	1	9.9	7.9	5.0	22.9	. 4	13.7 16.2	4.5	В	167	175		10	30	1	235	37000
12	16	5	.1	9.1	7.9	3.6	23.1	. 4	12.7	9.7	10	172	184	20	9	24		257	6900
12	23	58	4	6.9	7.7	3.0	26.0	.3	12.6	9.9	9	178	188	25	7	19	!	247	_
12	30	58	7	6.7	7.6	2.9	21.6	.5	10.9	9.6	10	160	175	30	7	18	1 1	237	_
1	6	59	. 3	7.0	7.7	5.1	25.4	. 5	9.4	11.0	10 11	161	177 199	30 35	6 7	20	t l	248	E 3 0 0
i	13	59	.3	6.8	7.7	2.3	20.9		12.3	11.0	19	,	186		6	17 17	1	275 220	5100 2200
ì	žó	59	• 3	6.5	7.6	3.1	24.5	. 3	10.7	13.0	12		194		7	16	1 1	271	6700
î	27	59	.1	10.5	7.6	3.4	21.4	. 7	10.6	12.0	11	177	196	1	6	1-	ì I	259	4100
2	3	59	. 2	5.0	7.5	2.9	21.4	. 3		12.4	ii	177	192		7	14	1 1	258	8100
2	10	59	• 2	3.7	7.6	3,6	23.B	. 4	13.8	12.5	iz	182	196		i ;	19		261	42000
2	17	59	• 1	3.2	7.5	3.9	18.9	- 4	18.0	9.0	14	182	197		6	17		277	25000
2	25	59	. 3	4.4	7.5	3.7	20.3	. 5	17.2	12.2	15	178	192			10		267	-
3	3	59	. 8	4.7	7.6	4.2	22.5	. 4	17.9	12.7	14	183	196		6	19		278	13000
3	11	59	1.3	5.7	7.7	3.2	22.7	. 3	17.7	13.0	10	175	190		4	19	(259	1600
3	17	59	1.2	9.9	7.8	4.9	20.7	- 3	14.0	9.9	10	169	181	20	6	12		249	11000
3	24	59	2.9	16.5	8.4	7.5	27.0	. 8	11.4	1.5	11	162	181	30	10	21)	244	27000
3	31	59	4.0	19.9	8 . B	7.5	27.1	1.4	_	_0		149	169	25	45	16		230	23000
4	7	59	6,5	16.0	8.7	8.0	29.2	1.3	10.0	.0	8	140	167	25	50	26		200	16700
4	14	59	7.3	18.3	8,8	7.1	27.9	2.5	9.7	.0	В		158		40	26	1	198	18000
4	21	59	7.5	14.4	B.6	6.5	25.3	2.5	B.1	,0	7		154		40	21	1	199	21000
4	28	59	9.0	11.2	8.3	5.9	23.9	2.5	8.0	.0	8	138	155		45	19		203	5300
5	5	59	15.9	7.9	B.O	3.6	19.1	1.1	10.1	4.5			152		95	21		184	4700
5	12	59	13.6	B • 2	8.2	4.0	24.0		10.1	3.5	6		150			16		187	2900
5	19	59	16.3	8.8	8.4	5.0	28.8	2.7	8.2	.0	7		166			20		202	10000
5	26	59	18.3	7.4	7.9	4 • 2	19.3	1.7	-	4.0	7		158	_	35	22		232	12000
6	Z	59	19.2	7.0	B. 0	4.2	33.2		13.6	4.1	7				70	22		203	24000
6	9	59	23.1	6.0	7.9	3.3	34 • Z		13.3	3.0	4			1	75	13		177	22000
6	16	59	22.2	8.5	8.2	4 4 5	38 • B		14.8	. 8	6					11	1	217	6000
6	23	59	21.8	8.3	8.2	4.2		2,6	_	3.8	7			-	1		1	700	3700
6	30	59	21.5	6.7	8.0	4.5	35.5	. 7	-	2 • 3	1 7	118	144	50	60	11		209	4800

STATE

MINNESOTA

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

NIBAE ROLAM

UPPER MISSISSIPPI RIVER

BUD BASIN

UPPER PORTION UPPER MISSISSIPPI

STATION LOCATION MISSISSIPPI RIVER LOCK DAM #3 BELOW

MINNEAPOLIS: MINNESOTA

_	DATI		1947	DHRIOLVID				CHOMP	DEMAND	AMMONIA								TOTAL	
ж	ž	Z,	Segres Capturable	OXYGEN =1/1	#	8.0.5 =q/l	= €/1	1-HOUR mg/l	24-HOUR mg/l	NITEOGEN mg/l	mg/I	ALEALENTY	HAEDNESS mg/l	coros	TURNETY (mails stable)	mag/I	PHOSPHATES	DISSOLVED BOLIDS mg/l	COLIFORMS
77778888599	14 21 28 4 11 18 25 1 9 15 22	59 59 59 59 59 59 59	25.6 26.6 25.3 25.7 23.3 25.6 25.0 25.1	9.0 7.9 8.0 5.3 8.8 5.4 5.4 5.9 6.7 7.2 6.5	8.2 8.1 8.3 8.7 8.2 8.4 8.0 8.1 8.2 7.9	4.7 4.9 5.1 5.6 5.0 2.6 3.7 3.5 3.7 3.5	34.5 31.6 42.2 38.7 28.7 28.9 28.9 26.1 26.5	.7 2.4 3.0 2.6 4.4 1.3 .1 .0	12.8 12.9 12.8 13.7 13.8 13.6 13.6 13.6 13.5 11.5	2.3 1.0 3 1.8 2.5 5.3 5.0 2.8 3.6 4.0	8 8 8 7 5 8 11 11 11 9 8 6	131 135	163 164 150 143 152 144 148 154 160 159 165 150	35	60 50 45 45 40 30 40 30	21 16 7 7 13 9 14 16 17 17 11 8 3		220 230 212 200 209 212 208 206 249 217	4800 2700 2100 1000 330 600 9000 *70 3000 2100 3200

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

M1550URI

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION HISSOURI RIVER H36 AT

ST.LOUIS, MISSOURI

	DATE		THAP	DIMOLVED				Calotted	DENAND										
HE	ž	1	(Degrada Cantigorial)	CONTRACT mg/l	pål	E.O.D. =g/1	C O D ■42/1	1-HOUR	24-HoLE =g/l	ME/I	CELOSDA mg/l	ALKALDETY =10/1	HAJENNES mg/l	COLOR	TURNIDITY james maked	REFATE mg/l	PHOSPHATES PHL/I	HOTAL BOUNED SOLIDS STEP!	COLPORAL per 190 mi.
10	6	50	17.■	8.9	8.2	1.3	9.7	3.1	10.1	•0	24	157	210	19	400	130	 -	420	6000
10	14	5	17.5	7.9	8.1	2.4	12.0	-	_	_	17	117	150	ž	1500	79		-	30000
10	20	34	16.7	8.5	8.4	1.6	9.5	-	_	-	23	160	210	10	380	157			6500
10	27	58	14.4	9.0	8.1	• 7	6.7	3.Z	7.4	.0	27	176	240	12	150	168		481	3400
11	3	50	15.0	10.2	8 • 1	1.2	6.9	-	-	-	27	178	233	12	200	167		_	7000
1 I	10	50	11.1	10.7	8.1	1.5		-	-	-	27	182	240	14	190	165		_	6200
11	17	56	15.0	9.4	5.0	2.2	7.6	-	-	-	27	185	236	16	300	126		-	33000
11	24	59	13.3	9.0	7.9	3.0	15.3			-	13	99	121	40	1100	44		-	29000
12	2	35	_	_	_	_	1	2.6	6.9	.0	28	190	230	20	180	152	i	416	20000
12	9	- 1	_	_	l l	_	1 7	1.9	5.6	1.5	26	183	228	15	120	87		377	B800
12	16 22	5.0 5.0	2,5	12.3	8.0	-	1 . 1	3.6	6,2	2.0	32	201	250		120	100	1	392	5700
12	29	58	5.0	12.3	8.1	2.3 4.1	4.3	-	-	-	31	256	310		102	105	1	-	_
12	5	39	,1	13.6	8.0	4.6	7.5	-	-	-	35	201	264	14	300	144		-	-
1	12	59	4.4	12.8	7.9	1.2	4.6	2.0	-		32	200	267	14	105	133	1		4400
1	19	59	2,8	12.0	8.0	4.5	5.9	2.0	5.8	1.5	26	175	224	12	90	73	1	334	3000
1	26	59	2.9	12.6	8.0	3.5	4.9	_	11.9	5.0	43	244 175	322	10	140	147	i	566	2600
2	2	59	4.4	12.9	8.1	3.9	3.0	_		I -	24 25	156	226 200	12	115	B1		_	2200
2	5	59	8.3	12.4	8.2	3.0	4.6	_	_	_	25	163	206	18	125 70	99 99		_	2000
2	16	59	3.3	12.9	8.0	4.7	14.0	_	_] -	19	115	156	26	350	54	1	-	2000 5600
2	24	59	3.3	11.2	7.9	8.2	15.8	_	_	_	22	135	173	26	360	67	}	_	5300
3	z	59	5.0	10.3	8.1	4.0	11.8	5.7	_	4.5	24	144	191	25	400	61	i		10000
9	9	59	6,3	10.6	7.9	4.5	21.6	8.0	13.5	3.5	32	104	134	36	1000	133		_	10000
9	16	59	6.7	10.5	8.0	2.7	11.7	-	1,500]]]	16		170	15	350	68	ł	_	4400
3	23	59	8.9	10.1	7.9	2.2	12.2	4.9	8.0	.0	18	131	193	15	400	76	ł	293	6900
3	30	39	11.6	8.0	8.0	4.5	26.1	7.9	16.5	2.0	20	124	192			71		299	43000
4	5	59	13.9	9.5	8.0	3.3	22.6	_	1013		19		160			63	Į.		10000
7	13	59			_	3,5		5.8	11.1	.0	22		160	20	450	60	l	330	6800
À	20	59	12.2	9.0	8.1	1.6	9.5	-		.2	22		208	16		99		342	"
4	27	59	16.7	8.0	8.0	2.0	18.7	_	_	. 2	16		170		1250	92		274	4400
5	4	59	21.7	7,5	8.1	1.4	13.4	_	-	.2	23		204			113		336	1700
5	11	59	18.8	6.1	8.1	2.8	34 4	-	-	.5	23		167	18	1	76		297	28000
5	10	59	18,3	6.5	B.0	2.9	49.1	_	-		21		149	_		61		239	22000
5	25	59	19.4	7.0	8.0	2.9	15.3	_	-	. 2	16		167			65	1	306	5000
6	1	39	23.9	6.4	8.0	1.5	13.6	_	-	. 2	17		166	22	1400	64		255	3400
6	8	59	24.4	6.3	8.0	1.2	14.2	-	-	. Z	13	106	143	28	2500	49		182	26000
6	15	59	23.9	7.0	8.2	.7	14.6	_	-	.2	21	149	200	26	1000	8 4		307	17000
6	22	59	26.6	7.0	8.1	. 8	15.6	_	_	. 2	29		217	10	1000	110		388	11000
6	29	59	25.0	6.9	B 3	_	12.2	_	-	• 2	30		235	20	550	129	1	40B	2800

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MISSOURI

NIBAE ROLAM

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER MS6 AT

ST.LOUIS, MISSOURI

DATE DF SANG		Thir	DESECUTED	_	_		CHOUNE	DESIAND	AMMONIA-								TOTAL	
THE A	ž	Pages Carried	COCTORNA INGL ⁷ 1	påt	L O.B = •/1	= ,/1	1-HOUR mg/l	34-HOUR ==/I	METROPHIA ME/I	CHOMOS mg/l	ALEALMITY mg/l	HARMAN mg/l	cotos	TURNIDITY	ERM/B	PHOSHATS ===/I	BOLEN BOLEN Mg/I	per 100 mL
	59 59 59 59 59 59 59 59 59 59	25.6 22.8 25.6 25.0 28.9 24.9 25.0 26.1 -26.7 20.0 27.2 22.2	6.3 4.9 6.5 6.9 6.4 5.6 6.9 7.3 9.0 7.5 8.4	8.3 5.2 5.0 8.1 8.3 8.3 8.3 8.3 8.3	1.3 1.5 1.0 .7 .8 1.6 .8 1.6 .8	27.4 28.7 17.5 13.1 9.7 27.0 213.1 7.9 6.9 18.1 7.6	11111111		• 5 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2	19 12 32 29 157 27 32 - 28 23 25	128 118 130 139 156 109 124 145 160 - 139 170 121 165	180 147 196 200 226 151 184 200 232 	24 15 16 12 25 14 16 17 20 15 24 15	4200 3200 950 650 4500 600 260 1100 1750 240	86 64 115 107 144 63 102 126 164 409 121 185 103 171		277 250 310 344 388 194 368 457 448 470	11000 - 9209 6300 23000 13000 7880 4900 - 8800 19000

STATE

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BABIN

BUB BABIN

STATION LOCAT

KANSAS CITY, KANSAS

	DATI		TEN	DESCRIPTION				CHLOROA	PERAND					<u> </u>					
E E	DAY	YEAR	(Dayress Contigrated)	 /1	påt	LOD ■■/I	COD ■ /I	1-Hour mg/l	24-HOUR	AMMONIA- HITROSIN mg/l	CHAMBE ==/I	ALKALBUTY ===2/I	HARDNESS mg/l	COLOR	TURNATIY 	<u>₽лит</u> Б =4/1	PHOSPHATES mg/l	TOTAL DISSOLVED SCRIPS ==p/1	COLPORAL per 100 mi
10	6	50	15.9	8.3	7.9	1.5	17.9	_	_	.3	16	166	233		250	187		474	26000
10	14	5-0	16.1	7.9	B.1	1.5	18.3	-	-	.3	16	163	233		230	187		483	21000
10	20	50	17.3	7.8	8.1	1.2	16.4	-	-	• 2	18	164	236	10	240	196		498	5500
10	27	50	11.6	8.6	B.1	1.3	15.6	-	-	.3	18	168	243	12	290	198		502	13000
11	10	54 56	10.2	9.3	B.1	1.9	16.B	-	-	.3	17	168	239	10	244	• • • •			
11	17	줐	8.5 14.8	6.8	8.0	2•2 6•1	15.5	-	-	• Z	21	180	246	j					
11	24	34	7.0	9.B	7.9	2.5	20.0	-	-	2.4	16	144	185	l					
12	1	58	4	10.3	8.0	3.2	14.6	_	_	. 4	28	196	250						
12	Ê	58	. 4	12.3	8.0	6.0	20.6	_		1.0	24	189	253						
12	15	58	.1	12.2	8.0	3.5	8.3	_	-	6.0	25 30	210 257	252						
12	22	58	1.0	10.7	8,0	2.0	11.4	_	_	6.0	28	210	311 277	ļ					
12	29	58	1.3	11.9	8.1	3.7	14.8	_	_	2.7	22	176	233		Ι,				
1	5	59	.0	11.1	8.0	1.9	6.5	_	_	3.2	22	207	270		32				2800
ī	12	59	.1	11.5	8.0	3.6	9.7	_	-	6.4	29		291		22	160	1 1	533	7000
ī	19	59	.0	10.7	7,9	2.8	8.3	_	_	3.2	25	193	257		51	170	[[487	16000
1	26	59	.0	11.0	7.9	3.7	9.3	-	_	4.4	28		257		48	141		470	17000
2	2	59	.0	11.1	7.9	2.9	9.5	-	_	3.6	26	193	267		35	169	1	521	8000
2	9	59	- 3	11.4	8.0	3.9	14.1	-	-	4.4	22	182	229	10	90	156		461	21000
2	16	59	. 8	10.1	7.8	9.8	49.2	-	_	7.2	14	132	164	20	550	_		329	55000
2	24	59	1.8	10.4	8.0	2.9	15.7	-	-	5.6	20	175	229	12	110	146)	448	15000
3	2	59	2.3	8.2	7.6	8.1	97.9	-	-	7.2	15	127	164	-	1300	91		313	16000
3	9	59	2.1	12.0	7.9	5.5	22.0	-	-	6.0	17	148	188		250	111		362	4000
3	16	55	3.5	10.4	8.1	5.3	39.8	-	-	4.0	17		188		500	104		350	26000
3	Z3	59	5.7	10.5	B.0	5.1	75.3	-	-	3.6	20		192	1	1400	103		338	15000
3	30	59	7.8	9-4	7.8	5.9	105.3	-	-	2 • 4	23		174	_	2000	84		319	110000
*	13	59 59	12.5	8.7 9.7	7.9 B.O	3.3 2.9	46.7 25.7		_	• 4	17		202	_	600	119		380	6300
*	20	59	10.5	8.6	7.9	3.1	47.7	2.3 2.7	7.5	1 7	15 15	156 155	203		350	121		369	4000
7	27	59	13.7	8.4	B.O	1.8	26.9	2.5	8.0	• 4	15	162	226	1	1150 370	139 137		405 418	23000 33000
5	4	59	19.9	7.3	3.1	2.0	31.7	3.0	10.5	.3	17		229		420	152		440	16000
5	11	5	17.7	7.1	7,8	3.3	86.5	1.6	10.0	4	11	153	105		1600	111		360	9700
5	18	59	17.0	7.7	8.0	1.4	40.4	2.8	B.6	3	14	178	226	_	700	127		410	7000
5	25	59	18.3	6.5	7.9	2.7	179.9	2.3	4.9	.4	12		_	_	2900	101		332	23000
6	1	39	19.9	4.7	7.7	2.6	273.5	2.3	4.9	.6	1 7		161	_	4600	169		247	25000
6	8	59	23.5	6.3	7.8	2.2	10.0	2.5	6.3	.2	13				1900	В7		330	33000
6	15	59	23.8	6.2	7.9	2.2	179.9	. 9	4.0	.3	15	_	209		3200	121		384	30000
6	22	59	27.3	5.8	7.9	1.8	38.0	3.0	12.5	.6	17		215	23	600	149		448	25000
6	29	59	25.7	6,0	8.0	1.6	35.9	2.6	13.0	. 7	15	164	229	12	580	160		445	13000

KAN5A5

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI RIVER

STATE

STATION LOCATION MISSOURI RIVER AT

KANSAS CITY, KANSAS

DATE OF SAMPL		TEMP	DESCUVED				040100	DEMAND	AMMONA								TOTAL	
-	- 15 A	Dagmer Configurability	==\1 CDX14=EH	på4	8.0.0. mg/l	<u>-4</u> /1	1-H00% ==1/1	14-HOUR mg/l	NITEOWEN mg/l	mg/I	ALKALIMITY IIII/I	HARDNESS mg/l	COLOR	posts subs	SALFATTE mg/l	PHOSPHATE Pag/I	SOLIDS SOLIDS Reg/I	PET 100 EL
8 10 8 17 8 24 8 31 9 8 9 14	59 59 59 59 59 59 59	23.3 25.7 27.3 27.2 26.2 25.3 20.0 26.4 25.3 21.5 18.1 18.5	4.9 5.6 5.9 5.5 4.9 6.7 5.5	7.7 8.0 8.0 7.9 7.99 7.99 8.1 8.1 8.0 7.8	2.4 1.2 1.3 1.7 1.5 1.5 .9 1.3 4.0	174.5 17.8 36.0 67.8 51.7 22.7 31.9 21.0 20.2 49.4 127.3	2.5 2.9 2.9 2.9 3.5 2.4 2.7 2.2	5.0 7.7 9.3 9.6 9.0 11.0 9.7 7.3 5.2 14.4 14.8	.4 -3 -3 -3 -2 -3 -3 -4 -5 -7	3-8 19 20 18 11 13 17 10 14 12 7		157 222 219 212 154 205 215 215 226 212 144	24 - 17 13 27 14 15 15 28 30	4400 460 280 800 1200 280 220 1000 2400	78 153 172 162 118 157 192 187 200 172 113		2538 4575 4575 4575 4575 4575 4575 4575 457	62000 22000 14000 19000 21000 13000 59000 7000 18000 15000

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MISSOURI

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI BELOW MIOBRARA RIVER

STATION LOCATION MISSOURI RIVER AT

ST. JOSEPH, MISSOURI

	ATE	_		DHEIOLVED				CHOUNE	DESIGNATION				_						
<u>-</u> T	ž Š	-4	TSAF (Degrees Cantigrada)	DICYGRAN mg/l	pět.	■ 0 0 ==p/1	C O B ■ # /1	1-HOLE mg/l	24-HoLE	AKHONIA- HITIOOIIN mg/l		AUGALIMITY mg/l	HARSHESS mg/l	COLOR	TURNEDITY (reads malte)	EQUATES mg/1	PHOSPHATES mg/l	TOTAL DUSOLVED SOUDS ===_/I	COUPONUS per 100 ml
10	6	58	14.4	8.6	7.8	2-6	_	3.1	4.5	_	27	162	224	10		_		_	_
	14	58	16.1	9,6	7.6	2.6	-	2.5		-	29	166	220	_	230	_	1	482	46000
	20	58	15.5	9.2	7.8	3.2	20.8	2.5	3.5	-	27	166	220	15	205	_		-	26000
	27	58	10.0	9.6	7.6	4.4	-	2.5	3.0	-	24	168	236	10	200	-	Ì	456	20000
11	3	58	10.0	10.0	7.7	2.0	-	2.5	3.5	-	24	172	242	10	220	-	l	480	8000
11	10	56	10.0	9.5	7.8	2 • 5	9.4		3.5	3.0	27	182	220	40	190	-		660	-
11	17	58	12.7	5.0	7.9	5.0		2.5	3.5	2.7	24	192	240	15	1000	137	Į.	590	-
11	24	58	-	-	-		-	1 -	1	i -	\ ~	L .	· -	· -) -	i -		- 1	59000
12	1	56	-	9.5	7.9	3.5	-	2.5	3.5	2.5	32	176	250	10		130		490	5800
12	9	58	-	13.0	7.9	3.4	-	4.0		4.5	32	196	276			145	ì	453	1400
12	15	56	1.5	13.0	7.9	3.6	-	6.0		7.0	39			-		_		500	-
12	29	58	1.1	13.4	7.8		-	3.0		3.0							1	465	-
1	5	59	1.1	12.6	7.9		-	3.0	,	3.5			1	-		160	t	510	
1	12	59	1.1	11.2	7.9		-	3.0	, , , ,	4.4	35	206	296			180		534	1500
1	19	59	1.1	12.6	7.B	2.6	•	3.0	4.5	3.5	33	194	248	15	25	155		564	360
1	27	59	-	-	1	1		1	· -	·\ -	1	1	-	-	-	1	1		500
2	2	59	1.1	10.6		-		3.0										517	2500
2	9	59	1.1	12.0	7.8		1 .	3.0			_						1	490	2200
2	16	59	1.1	10.6	1		'	6.0								1	1	i -	15000
2	24	59	1.1	12.0	7.9		-	4	6.0	5.0	30	152	200	15	1220	1	ı	-	
3	3	59	-	_	·		'	┪ . •		· -	· -		·		-	-	L	1	600
3	10	59	4.4			_	'	5.0									1	302	270
3	16	59	4 . 4		1	1	'	4.5	5.5							1	1	-	4100
3	24	59	4.6					┪ -	- -	4 . 2						106		369	4100
3	30	59	8.9	8.8			1 '		- -	, ,,,,				L.				357	1400
4	7	59	8.8	8.0	1	1		┥ -				- 1		- 1	1	115		386	350
4	13	59	11.1		1 -	1		- 3 ⋅ 5				1	1		1			409	910
4	20	59	12.2			3.0		3.5	5 4.5	1	1	- 1		- 1			1	384	7300
4	27	59	12.2	8.6		- 1.6	1	┧ ・		- 2 - !			_					411	7500
5	11	59	15.5	8.0	7 a E	3		3.0	0 4.0		1 -	5 140	- 1		5 600C		l .	340	200
5	18	59	-	1	- -			l	- :	<u>-</u>	l l			- 3		96	I	349	150
5	26	59	18.8		1 -	1		3.5				i i	_	-			1	356	5800
5	2	59	22.7	'\ -	7.6			3.4				1	L.	1				347	1200
6	9	59	21.1	6.6		. 1	1	3.	1			- 184		- (1300	_		406	1200
6	15	59	23.3						- 1	- 4.		- 16						340	2000
6	23	59	25 • 5	6.0	7.1	в -		7	- 4.	5 3.	6 2	4 13	B 18	2 2	7 /04	'l 9'	4	340	2000
																			1

STATE

MISSOURI

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI BELOW NIOBRARA RIVER

STATION LOCATION MISSOURI RIVER AT

ST. JOSEPH, MISSOURI

DATE DF LAMPLE						CHOM	DEMAND								,	TOTAL	
PAY YEAR	Digram Dagram Cantigrada)	DESCLVED COLVERN ang/i	pdf	Lob ≈g/l	E.O D ==€/I	1-Hout	24-HOUE	AMMONIA- NITROMEN mg/I	CHANDS	ALKALINITY	HARDNESS mg/l	cotot	TURBADITY (acute svalta)	SULFATES mg/l	PHOSPHATES mg/l	BISMOLVED BOLIDS mg/l	per 100 mi
7 1 59 7 6 59 7 9 59 7 16 59 7 23 59 7 28 59 8 11 59 8 20 59 9 20 59 9 16 59 9 22 59 9 22 59 9 22 59	23.3 24.4 26.6 26.7 26.6 26.6 26.6 25.5 22.0 17.2	6.4 	7.8 7.9 8.0 8.1 7.9 8.0 7.9 8.2 8.0 8.0	1.0	22.3	3.0 3.5 3.5 3.0 3.0 2.5 3.0 2.5 3.0	4.50 105	3.6 4.9 3.5 3.5 3.5 1.0 2.0 2.5	27 -33 29 23 20 27 32 -6 -26 27 27	186 168 170 172 128 160	182 205 200 210 212 171 211 202 204 237 210 220	15 12 15 15 10 10 10 10	5500 				75000 20000 - 130000 42000 6200 40001 55000 3100 - 35000

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEBRASKA

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M642 AT

OMAHA, NEBRASKA

	DATI		тем	DISSOLVED				OLOMB	PERLAND										
н	ž	YTEAR	(Degrees Considerated	OXYVEN mg/l	pět	■ 0.9 ■ = _/	C0 p ==_/1	1-ROUE mg/l	34-80UZ	AMMORIA- HITROSEH mg/l	mg/i	ALEALDATY ===/1	HARDNES mg/l	COLOR	(make make)	EUATE Hy/I	PHOSPHATES	TOTAL DIESO(VED EGLEDI ===/1	COUPORNI per 100 pd
10	6	5 B	15.8	8.6	8.2	. 8	10.6	4.3	5.0	•2	10	162	225	4	160	207		512	140D
10	13	56	13.3	9.4	8.3	• 9	11.7	3.0	6.2	.0	11	170	230	4	170	214		559	1700
10	20	58	14.8	9.1	B.3	1.5	13.8	3.2	5.4	.2	11	163	236	4	150	217		552	1000
10	27	58	10,8	9 • 2	B.3	. 5	11.7	2 - 1	3.4	• 2	12	167	237	4	180	212		570	330
11	10	58 58	10.0 7.1	10.4	8.3 8.3	1.4 2.2	12.2	1.7	3.2	•3	11	168	240	2	160	206		533	170
11	17	35	10.3	11.0	B.3	1.2	12.2	2.1 2.3	4.5	.3	12	183	252	6	170	200		497	830
11 11	24	5.0	5.5	11.9	8.3	3.5	7.3	1.4	4.5	.5	12 12	186 187	254 252		75 80	191 188		533 517	1400
12	1	50	.4	12.7	8.1	.5	11.6	1.5	3.2	.в	12	192	264] [130	204		589	2100
12	â	5 B	. 3	12.7	8.Z	2.3	B.5	2.4	5.0	1.0	13	193	260	4	140	186		530	1300
12	15	58	.3	12.0	8.2	1.6	9.5	1.7	2.7	7	12	186	266	6	35	201		553	_
12	22	58	.4	12.8	8.2	2.5	6.9	1.7	2.9	.7	11	189	238	4	80	257		531	_
12	29	58	.3	12.5	B • 2	1.6	4.6	2.3	3.7	.7	12	192	236	4	60	181	ļ .	520	-
1	5	59	. 3	13.1	8.1	• 2	5.4	1.4	3.0	1.0	12	191	278		15	205		527	460
1	12	59	. 3	12.5	8.2	. 5	4.9	1.7	3.0	.8	12	170	252	1	15	205]	527	1800
1	19	59	.3	12.7	8.2 8.1	1.5	7.3	2 • 1	3.5	1.0	12	167	234	4	30	171		475	11000
1	26	59	.3	12.5		• 2 • 5	4.9	2.0	3 • 2	1.1	12		252		20	227		494	3300
2	2 9	5 F	.3 .3	12.8 10.7	B.2 B.2	1.0	10.6	1.2 1.5	2.9	• 5 • 7	12 12		250 228		20 20	185 179	i	461 495	3200 2100
2	16	59	.3	12.1	B • 2	4	3.8	2.1	3.6	.6	12		245	6		182	1	430	43000
2	23	59	. 3	11.7	8.1	3.0	5.7	1.7	3.1	1.0	1 11		235		35	178		480	4300
3	2	59	. 4	11.2	8.1	3.0	10.6	3.2	5.1	1.2	12		220	4	120	154		476	11000
3	9	59	. 3	11.6	8.2	2.4	16.0	1 - 2	2.8	1.5	12	158	225	4	25	152		459	2600
3	16	59	. 3	11.2	8.1	2.0	22.4	3 • 4	5,5	1.5	16		220			152		410	6400
3	23	59	6.1	11.3	8.1	2.7	27.6	4.3	7.7	2.5	13		220	1	_	147		410	9500
3	30	59	5 . B	10.7	B.1	5.3	28.1	5.0	8 . B	2.0	15		220			154	1	446	1000
4	6	59	9.4 7.7	10.2	8.1	3.3	27.1	2.3	4 - 4	1.8	12		190			137		350	*330 *36
4	13 20	59	7.2	10.4 9.8	8 • 2 B • 2	1.3 2.4	19.2	3-1 1-2	4.3	1.2	11	155 168	210			162 178		430 480	T 30
7	27	59	11.1	9.3	8.2	2.9	11.0	1.2	2.9		12		234			179	1	466	900
3	4	59	19.5	7.5	8.2	1.3	20.0	1.4	5.6	1.7	18		222			174		489	18000
5	11	59	15.1	7.1	8.1	1.2	17.1	3.1	3.9	7	13	1	231			172		460	5000
5	18	39	15.7	7.8	8.2	2.2	18.0	1.2	2.9	. 8	13					179	Ì	466	290
5	25	59	15.9	7.8	8.2	2.3	19.6	1 • 2	3.4	. 6	13	172	221			167		476	26000
6	1	59	18.3	4,0	7.8	3.4	178.1	1.3	3.1	4.8	7		150			172	1	480	64000
6	8	59	23.3	5.6	B.O	1.3	35.3	3.2	4.5	. 8	12		1			138		397	7700
6	15	59	23.4	6.1	8.1	1.7	29.7	1.7	3.7	.5	11			1 _		160	1	455	9300
6	22	59	25.0	6.0	8.1	1.5	25.8	1 5	2.7	. 4	14			1		174		499 456	14000
6	29	59	24.2	5.5	7.9	2.8	95.0	4.5	5.7	1.1	5	156	214	<u>'</u>	1900	158	<u> </u>	496	41000

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NEBRASKA

MAJOR BASIN

MISSOURI RIVER

MISAS SUB

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M642 AT

OMAHA, NEBRASKA

		Τ	PUSOLVED				CHLORN	DEMAND	AMMONIA-								TOTAL	
The A	$\overline{}$	Tiple Dayres Cardynah	COLVERY COLVERY	144	■ D.D. ===/1	= €/1	1-HOUR mg/l	24-HOUE mg/l	NETEDWIN mg/l	GLOEDS	ALKALMITY mg/l	HARDREED mg/l	COLOR	Park who	BAPATES ==5/1	PHOSPHATES Mg/I	DOMESTICAL DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	COLFORMS per 100 mi
7 13 7 20 7 27 8 10 8 17 8 24 8 31 9 14 9 21	7 5 5 5 7 5 1 5	9 24.2 9 24.2 9 26.5 9 26.5 9 25.6 9 25.6 9 24.4 9 24.4 9 17.0	6.6 6.1 6.5 5.2 7.0 6.8 6.2 5.9 6.3 7.6	8.1 8.1 8.2 8.1 8.2 8.2 8.3 8.2	.8 .9 .5 1.6 2.9 1.7 1.3 .3 1.7 .4 .5	35.2 25.6 16.0 23.2 23.2 21.1 11.2 25.6 18.0 25.0	1.2 .5 1.3 1.3 .5 1.6 3.0 2.6 2.4	4.0 3.2 2.5 3.2 2.2 2.9 4.9 3.7 3.9 4.0	.5 .2 .6 .7 .5 .4 1.2 .1 .1	18 13 11 12 14 9 11 11	165 168 165 173 167 170 177 169 172	227 225 217 230 224 221 235 238 221 241 243	B 7	220 210 180 170 700 130 220 130 140 160	172 177 174 187 189 193 227 219 219 227 225 216]	49520755555555555555555555555555555555555	1500 2000 3700 1000 2000 6000 *63 7000 2000 25000 25000

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

SOUTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M841 AT

YANKTON, SOUTH DAKOTA

	DATE	4.1		DESCUENT				CLOCKE	DELLAND										
HE	à	3	(Dayless Canadagements)	COCYMEN mg/l	Ĭ	■ 0 D. ■■/I	20 B ■ 3 /I	1-HoUE mg/l	24 HOUTE	AMMONEA- HETROUBH mg/l	CHLORIDAS mg/l	ALKALIMITY mg/l	HARDNIN mg/l	COLOR	TURNETITY (Look works)	MATE .	MICEPHATES mg/l	TOTAL DOSOLYND SOLIDS My/I	COLIFORNIS per 100 ml.
10	6	50	16.0	9.8	8.3	1.2	-	1.1	2.6	1.8	14	158	228	60	30			-	*10
10	13	38	15.0	9-9	8.3	. 9	-	1.0	2.1	1.8	15	164	232	60	30	_		-	80
10	20 27	58 58	16.2 12.5	9.7 10.5	8.3 8.2	1.1	1 1	1.2	1.9	1.5	13	156	240	50	30	-		-	10
10 11	3	38	11.0	11.0	8.4	1.5	ıj	• B • 7	1.3	1.8	15	154	244	40	25	-		-	30
11	10	50	9.5	11.4	8.3	1.3]	. 9	1.5	1.5 1.5	15 15	164 162	256 256	40 40	25 25	-		- [#9 #9
ii	17	58	8 . B	11.5	8.1	1.5	4	. 9	1.4	1.5	14	170	252	30	25	_		- -	#9
11	24	58	6.6	11.8	8.3	1.8	I ⊣	. 8	1.1	1.5	15	144	252	50	25	_		_	130
12	1	58	3.0	12.8	8.2	-	I ⊣	. 9	1.1	2.0	14	148	220	30	25	_		_	10
12	В	56	2.5	13.4	B , 4	-	12.8	. 8	1.0	2.0	14	148	240	30	25	-		-	10
12	15	58	1.0	13.8	8.1	-	⊣	• 7	1.0	1.5	14	150	220	30	20	-		-	_
12	22	5.5	2.5	13.6	8.1	-	-	• 9	1.6	1.5	11	148	244	40	20	-		-	-
12		58	2.0	13.2	8.5	-	1	. 7	1.0	1.5	9	148	256	40	20	-		-	-
1	. 5	59 59	1.0 1.0	13.7 13.8	8.4 8.1	_	12.1		. 9	2.0		168	236	40	20	-		-	#10
1	12	59	1.5	14.3	8.5	_]	.5 .8	. 9	1.5	14	164	252	30	20	-	\	-	10
1	26	59	2.0	14.4	8.3	_]	.8	1 • 1 1 • 1	1.5	9	180 168	224 260	30 20	20 20	-		-	10 #9
2	2	59	2.5	14.4	8.2	_	11.0	1.3	2.0	2.0	7	162	252	20	20	_		_	+9
2	9	59	2.0	14.4	B . 4	-		1.0	2.3	1.7	,	162	220	20	20	_	·	_	#10
2	16	59	1.0	14.7	8.5	-	-	. 9	2 . 2	2.0	13	166	232	20	20	_		_	#10
2	23	59	1.0	14.0	8.1	-		1.2	2 • 2	2.0	9	158	232	20	20	-		-	+10
3	2	59	3.0	13.5	8.0	-	9.4		2 . 3	1.7	13	166	260		20	_		-	10
3	9	59	2.0	13.5	8.3	-	! -	1.0	2.9	1 • 5	7	174	245		20	-		-	+10
3	16	59	4.0	13.3	8.0	-	-	1.1	3.0	2.0	7	146	220		20	-		-	-
3	23 30	59 59	3.0	13.1	8.1		۱ ٦	1.0	2.8	2.0	7	152	212		20	-			+8
3	6	59	4.5 6.0	14.5 13.9	8.1 8.3	3.5	12.9	.9 1.7	2.4	2.0 2.0	7 7	138 138	176 176		20	_		_	30
7	13	59	9.1	11.7	8.0	3.1	l]	1.6	4.8	1.8	'7	156	228			_		_]
4	20	59	8.2	11.2	B. 0	3.1		1.7	4.9	1.5	ا ا	166	224			_		_	_
4	27	59	B . 5	11.5	7.9	2.1	l -↓	1.1	4.4	2.0	l š	160	224		20	_		-	2
5	4	59	15.1	10.3	8.1	2.3	13.3	. 8	3.9	2.0	В	170	208	1	25	 -		- '	-
5	11	59	14.0	9.9	7.9	2.3	-	1.5	3.5	1.7	9	162	228		30	-		-	17
5	18	59	14.5	10.6	8,5	2 • 4	\ -	1.5	3.B	1.5	7	162	212	1		\ -	1	-	45
5	25	59	16.5	9.5	8.4	2.6	1 1	1.6	3.7	1.2	В	160	224			-		_	11
6	1	59	18.0	B.9	8.2	2.8	-	1.6	3.9	1.5	9	158	224					_	27 37
6	. 8	59	20.8	7.6	B . 2	3.0	1	1.8	3.8	1.5	10	150	208						''
5 5	15	59 59	22.5	7.8 7.5	8.1	3 · 2 3 · 5]	2.0 1.6	4.1 4.4	1.5	9	150 160	232					_	14
6	22	59	21.9 22.2	7.5	8.4 8.4	3.5]	.6	3.2	1.7	11	158	208	. [_			_	1
	23	77	22.2	(• 5	0.4				312	1 1						<u></u>		L	

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

SOUTH DAKOTA

MAJOR BABIN

MISSOURI RIVER

BUB BASIN

LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER MB41 AT

YANKTON, SOUTH DAKOTA

DAT OF SA							CEDESE	DENAND	AMMONTA-								TOTAL	
- Y	Т	Titel? Elegent Carligrade	DESCUVED COXYGEN mg/l	pěří	■ . 0.0	/I	1.HOUR	34-HOUR mg/l	MITEOGRA mg/l	CHARTON	AKAINTY ==/1	HARDNED Hard	(COLOR	TURNICITY	== /1	PHOSPHATES	DESECUTED ROLEDS may/1	per 100 mg,
7 13 7 20 7 27 8 3	59 59 59 59 59	21.5 23.5 25.8 25.5 25.5 25.5 26.8 25.0 23.2 21.5	7.7 7.8 6.9 7.5 6.9 7.7 7.5 8.3 7.3 9.3 8.5	8	.7 .9 .5 1.0 1.2 .7 .6 1.0 .5 1.0	13.2	.6 .8 .6 .7 .3 1.0 1.5 1.6 2.0 1.6 1.2 1.7	2.9 3.0 2.7 2.2 2.9 3.4 5.5 5.1 4.0	2.0 1.5 2.0 1.5 1.5 1.5 1.5 1.5	10 10 8 9	150 162 160 170 168 168 162 168 166 174		40 50 50 50 - 30 30 30	40 25 25 25 25 25 25 25 25 25 25 25				72 34 44 - 4 380 68 82 *20 24

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

SUB BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER M1377.4 AT

BISMARCK, NORTH DAKOTA

	DAJTI JAJN		THEF	DESHOLVED				CHARM	DEMAND									TOTAL	
TU N	ž.	TEAR	Engrish Carifyrain)	00(Y000) mg/)	p#4	■ _/I	COB mag/I	1-HOUR mg/l	34-HOUR	AMMONIA- HTTEORIN HTT.	CHE.CONTONS mg/l	ALKALDATT mg/l	HANDNESS mg/l	COLOR 	TURBLE()Y	RUATE ■/I	PHOSPHATES	BOTOS BOTOS PEROTABO	per 100 mL
10	1	50	10.0	9.4	-	1.3	6.4	_	3.4	_	10	-		_	_	216		375	-
10	- 1	30	12.2	-	8.2	<u>-</u>		-	-	-	_	152	202	18	37	_			220
10	8	50	12.0	9.2		1.2	5.0	1.0	2.9	-	8	-	-	-	-	175		375	76
10		58 58	12.2 12.0	9.4	8.3	1.0	6.3	.4		_	<u>-</u>		198	13	45			375	70
10 10	15 22	34	10.0	9.9	_	. B	7.3	.7	2.5	-	5	_	-	-	-	175 178		375	210
10	28	50	9.8		8.2	-	8.9		-	_	-	148	198	1	32	1,0		_	480
10	29	58	10.0	10.0	_	1.0	9.3	1.2	2.3	_	l a	-	•′-	<u>'</u>	-	150		384	-
11	3	58	9.9	-	5.3	<u>-</u>	-	_	-	-	_		196		24	_			140
11	5	56	9.0	10.4	-	•7	8.7	. 8	1.3	-	9		-	-	-	173		375	370
11	12	50	6,8	1 ,, 7	_	-	12.9			-	-		200		35			389	190
11	18	50	4.0	11.8	_	1.0	10.4	1.4	6.4	- -	6		196	_	67 93	170		-	
11 11	24 26	3	2.0	13.0	7.8	2.0	10.6	1.8	5.5	_	[148	200	14	79	180		384	310
12	2	50	.2	_	_	_	_			-	-	150	200	14		100	i	-	230
12	3	58	3.0	12.4	7.B	1.1	10.5	.9	5.6	-	7				_	170		364	-
12	8	55	. 2	-	-) , -	1 -	-	l .	-] -		212	:) B	6	-			230
12	9	58	1.0		-	1.6	8 - 6			-	8	1	-	-	-	180		395	_
12	16	58	2.0	12.8	` -		10.8			-	1 6		204	В		173		369 374]
12	23	50	1.0	12.6	8.2	1.7	11.3	1.6	3.8	-]	1	1.5-	:	7	165			-
12 12	24 30	56	. 2	12.6	0.2	1	9.8	1.3	3.7	_	1		198] _	1	187	l	364	-
12	31	50	. 2		_	-	'-	1	'"-	-		1	202	1		10.		-	-
1	6	59	1.0		_	1.3	9.5	1.8	9.0	-	1 6		204	1	1	185		354	21
ī	13	59	. 2		_	-	-		_	-	-	1	196			· -		_	230
1	14	59	1.0		-	2.0	8.1			-	1 .		-	-	t .			365	
1	20	59	1.0		8.4	2 . 4	7.2	1.1	3.1	-	1	1		_		18■		365	130
1	26	59	. 2		8.4	1	-	1	1 - 7	-] -		212		1 -	,,,-		394	60
1	27	59	1.0		-	1.7	-	1.6	3.4	-	Į.	1	21	2 3	1	188		\ ''	210
2	3	59 59	• 2		B • 4	1	6.8	1.6	4.0	1	ζ.			-	1	190		298	-
2	10	59		1	B.3	1	"-] ***		.) -	1	170		1	1			-	36
2	12	59	.5		-	2.0	8.6	1.7	3.5	-	.] !	5 -	· •	-		l	1	395	-
2	17	59	• 2	-	8.1	-	-	- }	· -	· -	1	- 162	22!	1	1			414	110
2	18	59	1.0		ì <u> </u>	1	8.1	1.2	3.4	-		3 -		- - E	1		1	414	56
Z	24	59			B.1		1,,	1 . :	1 . 7	· -	1	-) 166 9) -		<u>.</u>	5	207	1	281	-
Z	25	59	2.0	12.6	-	1.2	10.5	1.3	3.6	-	·	-] '	-	_	1 201			
					1								1				{		
	1			1	l						1				L	└			

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NORTH DAKOTA

MAJOR BASIN

MISSOURI RIVER

BUD BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER MISTT.4 AT

BISMARCK, NORTH DAKOTA

_	DATE							CHOOSE	DENIAND	AMMONIA-								TOTAL	
HUMON	à	3	TBMP Programs Consignated	DESCRIPTION OF THE PROPERTY OF	#	LO. 0 -g/l	⊆9 0	1-HOUR mg/l	34-HOUR mg/l	HITEDOSH mg/l	mg/l	ALFALIMITY mg/l	mg/I			=1 /1	PHOSPHATES mg/l	POLIDE HOLIDE mg/l	Per 100 mi
	3	59	• 2	_	8,3		_	_	_	_		164	248	14	7	_		-	120
3 3	4	55	. 6	12.	-	1.0	8.5	1.6	4.1	-		-	-	-	-	206		411	-
3	10	59	2.0	12.4		1.5	13.3	-	4.1	-	9	1	2=4	, <u> </u>	7	210	1	364	260
3	17 18	59	. Z	,, -	8 • 2		10.7	1.6		_	14	160	254	14		207]	448	520 -
3 3	24	59 59	1.0	12.4	8.3	1.6	10.3	1.5	4.8	_	17	140	184	18	120	-		-	90
3	25	54	.5	11.6	-	2.7	15.2		9.2	_	12				_	211		380	
9	31		3.4	.0	B.3	-	-	_	_	-	_	170	236	30	110	_		-	36
4	1	59	3.5	12.4	-	2.2	16.6	2.7	6.6	-	11	-	-	-	-	203		446	-
4	7	59	11.2	-	8 . 2	-	_	-	-	-	-	170	230	12	110	-		-	360
4	14 15	59 59	5.5	,, -	8.2		_	2.5	6,4	_	10	172	220	6	4 2	23 3		448	72
4	21	59	6.2 10.2	11.6	8.3	2.2	i]	213	-	_	10	164	232	20	35	253		 -	10
Į	22	59	5.6	12.0	" -	2.3	10.6		_		10		-	1	_	215		436	
4	28	59	9.2	_	8.3				_	-		170	244	8	95	-		-	80
4	29	59	6.9	11.6	-	1.7	10.1	1.2	3.8	-	7	-	-	-	-	232		449	-
5	5	59	5.2	-	8.3	-	-	-	-	-	-	168	236	8	53	-		-	190
5	6	59	5.1	12.1	_ [1 • 7	4 • 6	_	4.0	-	10	, _ _		_	- 37	224		528	_ -
5 5	12	59 59	7.2 7.0	11.5	5.3	1.3	8.4	_ •7	_	_	10	178	234	3	3 / -	215		419	70
5	20	59	7.5	11.3	_	1.5	7.3	1.1	3.6	_	10	_	_	_	_	224		374	260
5	26	39	8.6	***-	8.5	-	۱ ''1			_ '	-	170	232	3	29	-			
5	27	59	9.0	10.9	_	1.3	6.4	1.1	3.9	_	7	_	-	_	_	221		417	30
6	2	59	11.7	-	B.3	-	-	_	-	-	-	166	228	3	28	-		-	33
6	3	59	12.5	10.4		1 • 4	11.7	1.4	4.4	_	9	. .		<u>-</u>		225		446	-
6	9 10	59 59	15.1 15.1	9.4	8.3	, -	,, ,	.7		_	-	162	220	3	30	-		4	40
6	16	59	16.8	7.4	8.3	1.8	10.1	• ′	5.4	_	5	228	166	- B	- 25	220	,	400	100
6	17	59	18.0	9.2	-	1.3	7.3	. 9	5.2	_	7		100	_	-	208		436	100
6	23	59	15.1	'	8.3	-	``-	-		-		162	222	8	34			750	57
6	24	59	16.5	9.2	-	1.5	9.0	1.3	4.4	-	7	_	_	-	_	207		417	_
6	29	59	13.5	-	8.5	-	-	-	-	-	-	152	220	12	32	-		-	72

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NORTH DAKOTA

HAJOR BASIN

MISSOURI RIVER

BUD BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER MIST7.4 AT

BISMARCK, NORTH DAKOTA

	DATE		тиг	DEMOLVED					MANAD	AMMONEA-								TOTAL	
HUNG	à	TEAR	Paper Carlyman	OXTWEN ME/I	på4	■ 0 D	= ■/1	1-HOUR	24-Houte mg/l	HITBORN	CHLORIDES mg/l	ALEALINETY ===/1	mg/l	COLOR	TURNETTY (reads welled)	SUATE	PHOSPHATES	PEROLYED FOLIDS	per 100 mi
7777777888889999999999	176451289451125128956239	99999999999999999999999999999999999999	15.0 18.5 21.0 20.0 21.2 20.0 20.0 18.0 17.3 16.2 17.3 16.0 15.5 10.2	9.4 	8.3 8.3 8.3 8.4 8.4 8.4 8.5 8.5	1.5	8.6 8.6 13.0 11.4 	1.6	2.7	-	1 - 8	158 - 152 - 154 - 152 - 152 - 152 - 154 - 152 - 152 - 154 - 154 - 154 - 154 - 154 - 154 - 155 -	222 222 218 218 218	25 15 26 15 15 17 7 10	35 -33 -30 32 26 34 55	150 178 175 175		376 389 413 394 417 436 407 386 379 335	40

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

TIALE

NORTH DAKUTA

MAJOR BASIN

MISSOURI RIVER

SUE BASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER AT

WILLISTON, NORTH DAKOTA

	DATE		The	DEMOLVED				OLONG	PERLAND	AMMONIA								TOTAL	
HUMON	à	av I	Papers Papers Configurate	OXYBEN mg/l	pH	EQD mg/l	= 4/1	1-HOUR mg/l	24-HOUE mg/l	HETELOGIAN mg/l	== /1	AUTALIMITY ==g/I	#ARCHIES	coros	(Posito malia)	EAJATES Eg/I	PHOSPILATES 199/I	DISPOLVED SOLIDS mg/l	COLFORMS
10	15	58	9.5	_	8.1	-		-	_	1.0	12	176	234	5	105	_		-	
10	23	58	8.5	-	8.1	-	1 -1	_	(-)	. 5	11	174	256	5	200 300	-		-	6700
10 11	28 5	5 m 5 m	5 . Z 4 . 5	-	8.1 8.0	_	lj	_	_	1.0 1.0	12 11	176 176	254 258	٥	100	_		_	420
11	12	56	3.5	_	8.2	_	14.0		_,	1.0	12	182	268	Ö	158	-		_	720
11	19	50	2.5	_	8.1	-		-	_	1.0	12	164	274	0	98	-		_	920
11	26	58	. 5	-	8.0	-	-	-	-	. 5	13	190	288	10	212	-		~	_
12 12	3	38	• 5	-	B.O	-	1 1	-	-	.5	13	190 194	286 282	0	45 10	-		-	40
12	10 17	56 55	.5	_	7.9 8.0	_	11.4	_	-	.5	13 10	190	258	6	10	1		-	270
12		50	4	_]	7.9	_	-		-	. 5	10	190	250	10	15	-		_	_
1	7	59	4	11.8	7.9	1.4	-	1.2	3.8	2.0	13	198	300	5	15	-		-	520
		59	- 4	12.0	8.0	1+4	8.7	1.2	3.4	. 5	12	195	280	5	15	-		-	370
-1	21 28	59 59	• •	11.9	7.9 5.0	1.1 1.2	1 1	1.4	3.6	•5	13 13	200 154	304 278	0 5	38 15	-		-	3300
1	4	5 A	• 4	12.0 12.4	8.0	1.2]	1.4	3.2 3.0	• 5	13	190	276	ام	15	_		_	400 840
2	11	59		12.1	8.0	- 1 4 2	1 7	-	-	.5	13	190	275	o	20	_		_	720
2	18	59	44		7.9	_	-	-	-	-	12	184	268	5	26	-		-	680
	25	59	• 4	-1	7.9	-	29.3	-	-	-	12	188	278	5	34	-	·	-	200
3		59 59	. 4	-	8.0	-		-	-	-	13	182	276	0	42	-		-	480
3	11	59	1.0	-	8.0 8.2	_]		-	_	13 10	142 160	200 258	15 10	122 640	_		-	4800
4	15	59	0.0	-	8.1	_		_	_	_	13	170	250	10	305	_		_	400
4	23	59	B . 5	-	8.0	-	4	-	-	-	13	172	270	10	380	_		_	1100
4	29	59	8,5	-	8.0	-	-	-	-	-[13	170	260	5	310	_		_	600
		39	10.0	-1	8.1	-		-	-	-	12	168	262	5	430	-		-	580
5		59 59	18.0	-	8.0	_	25.5	-	_	-				- 5		-		-	1400
6	10	59	19.0	-	8.1	_ []	_	_		10 13	142 136	20 4 170	10	290 1500	-		-	_
6	15	59	-	-		-	_	_	-1	_	13	-	170	1 -	1500	_		_	700
6	24	59	20.0	-1	8.0	-	-	-	-1	-1		90	110	10	790	_		_	380
7	1	59	16.5	-	B . 2	-				-	5	98	116	5	1500	-		-	-
7	15	59 59	19.5	-	8.1	-	52.3	2 . 4	7.9	1.0	5	118	184	. 5	2200	-1		-	3500
i		59	22.5	7.0	B.2	1.3	J	1.0	2.6	1.0	7 7	100 118	146 150	10	290	-		-	40
7	29	59	22.0	6.5	B.2	.4	4	1.3	3.7	.0	é	130	174	20	162 164	_		_	540 410
													1						410

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

NORTH DAKOTA

MIBAS ROLAM

MISSOURI RIVER

SUB EASIN

MISSOURI-SOURIS RIVERS

STATION LOCATION MISSOURI RIVER AT

WILLISTON, NORTH DAKOTA

_	DATE		TRAF	DESERVED				CHLORES											
HEAGE	¥	YEAR	(Dagerra	OXYESH mg/l) Hain	B.O D ■g/l	C □ D =6/1	1-Hous mg/l	24-HOUE ==_/l	AMMONEA- HETTICOGH mg/l	mg/l	ALKALIMETY ING/I	HAROHENS mg/l	100.000 	TURNIDITY [code syde]	SULFATING mg/l	PHOSPHATES mg/T	TOTAL DESCLOS SOLES ===/1	COUPONLS
8 8 8 9 9 9 9 9	5 12 19 26 2	59 59 59 59	23.0 19.0 20.0 19.0 14.5 11.0 8.0	7.66 8.1 8.3 7.66 9.0 10.0 11.3	6.2 8.3 8.2 6.3 8.3 8.3	1.5 .9 1.2 1.4 1.5 - 1.2	24.1	.7 1.0 1.1 .7	3.2 4.5 4.7 1.7 5.0 8.3 3.8	•5 •5 •5 •5 •5	8 8 9 9 9 9 11	150 158 156	194 212 218 220 218 242 252	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	125 90 158 78 113 171 340				100 - 25 40 10 40 -

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ILLINOIS

MAJOR BASIN

OHIO RIVER

BUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

CAIRO, ILLINOIS

_	DATI							CHLOSE	DENAMO	AHIOHIA.								TOTAL	
HUMOM	à	<u>1</u>	Title Dayres Cantigrain	DESIGNATION CONTAGEN	pit	8.0 D mg/l	€ G.D /1	1.HOUR mg/l	34-HOUE	NETBORRH mg/l	Glointi H	ALKALINITY mg/l	HARDHINI mg/l	color		= _/1	FHOSTHATES mg/l	DEMOLVED ROLIDE mg/l	COLIFORNI per 100 mi.
10		50	20.6	7.4	7.5	•6	_	1.0	4.8	1.0	18	81	125	-	65	•		-	9
10		58	20.0	8.4	5.1	. 9	-	1.0	3.4	1.0	19	■0 74	140 136	_	40 40	-		-	100
10 10	21 28	58 58	19.8 17.0	8.3	7.5 7.9	1.0 1.2]	1.2	3.6	1.0 1.0	22 22	75	130	_	30	_		_	9 *9
11	4	58	15.5	9.6	7.7	1.8]	. 5	3.0	2.0	18	80	120	15	35	_		_	*10
ίī	10	30	13.5	10.0	8.0	2.2	l ⊣	1.4	3.5	2.0	20	82	140		35	-		_	*10
11	17	30	15.1	9.0	7.7	1.5	-	1.6	4.2	2.0	19	60	140	-	68	-		-	± 9
11	24	34	13.8	9.9	B. Z	2.0	15.4	1.7	4.5	2.0	22	90	176	_	50	-		-	500
12	1	3 6	5,5 6.1	13.0 11.3	B.O B.O	4 • Z 2 • 4		1.2	3.5 6.2	1.0 1.0	33 28	95 95	200 200	_	125 120	_		_	1000
12 12		38	3.1	14.0	B. 0	4.5]	1.0 1.6	6.2	2.0	26	100	152	_	170	_		_	1100
12	22	58	3.0	14.2	8.0	3.0	4	1.6	5.B	2.0	20	88	150	_	70	_		_	_
12		50	4.1	14.5	8.0	2.8	10.Z	1.2	5.4	2.0	21	90	160	-	40	-		_	_
1	5	59	1.8	15.7	8.2	5.4	-	1.4	4.6	2.0	12	95	174	-	90	-		-	-
1	12	59	2.0	11.6	7.8	2.9		. 9	4.5	7.0	22	85	195	-	50	-		-	+10
1	19 26	59 59	2.5 3.8	11.1 9.3	7.8 7.6	3.0 5.2	75.0	1.0	4.0 5.6	14.0 2.0	24 10	90 60	170 128	_	150 1200	-		_	2000
2		59	3.0	10.4	7.3	4.6	7310	1.6	5.4	7.0	12	52	90	_	600	_		_	5900
2	9	59	2.9	11.1	7.3	3.8	-	1.6	6.0	2.0	90	71	110	_	350	_		_	2000
2	16	59	5.4	10.0	7.5	2.7	-	2.0	6.4	. 7	14	64	135	-	425	-		_	1100
2	24	59	4.5	11.0	7.5	3 • 2	-	1.6	6.4	2.0	3	61	110	-	575	-		-	-
3	3	39	6,1	10.6	7.5	2.2	1 1	1.5	5.B	. 3	11	78	136	-	200	-		-	460
3	10 16	59	6.8 7.2	10.8	5.0 8.0	1.7 2.0	ı	1.6	5.0	1.0 2.0	9 14	86 98	160 176	_	140 220	_		-	200
3		59	8.0	10.4	7.8	2.8		1.0	4.6	1.5	11	96	170	_	230	_		_	400
3		59	10.0	9.8	7.8	2.2	-	1.0	4.5	1.0	12	6 8	150	-	125	_		_	470
4	6	59	12.5	9.0	8.0	1.5	13.8	1.0	4.6	1.0	12	90	162	-	160	_		-	660
4		39	12.6	9.0	7.8	2.0	-	• 8	4.5	1.0	13	8 4	152	-	150	_		-	* 9
4		5 9 5 9	13.0	8.5	7.8	2.1	-	. 9	4.6	1.0	10	64	136	-	150	-		-	#9
4 5	27	59	19.8	9.0 7.0	7 . 8 8 . 0	2•2 2•0	25.0	1.0	4 · Z	1.0	9 7	66	116 160	_	160 100	-		-	-
5		59	21.0	6.7	7.8	1.8	27.9	1.1	4.2	1.0	6	72	145	_	175	_		_	200
5	18	59	20.0	6.4	8.0	a B	4		4.2	1.5	11	85	160	-	100	_		_	200
5		59	21.2	6.7	8.0	1.3	26.5	. 6	3.4	1.0	12	80	150	_	110	-		-	_
6		59	24.4	6.5	8.4	. 7	-	1.0	3 . 4	1.5	16	82	140	-	140	-		_	220
6	B 15	5 9 5 9	25.5	6.6 7.0	B . 2	1.6	7	1.1	3.8	1.0	13	BO	146	-	75	-		-	-
6	22	59	26.2	7.4	8.2	1•4 1•7	13.5	1.0	3 · 8 4 · 0	1.0 1.5	14 11	78 50	160	_	80	-		-	-
6		59	28.4	7.6	8.0	1.4	1	. 8	3.6	1.0	12	86	132	_	65 50	-		_	32 0 1000
	لنت							- 0	7.3	• •									1000

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

ILLINOIS

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

CAIRO: ILLINOIS

0	DATE MAN	-11	TRACE	DESCRIPTION				CHLORNE	DEMAND	AMMONIA								T	
Ē	ž	3	الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة الموسطة		ī	L O D mg/ 1	-1 /1	1-HoUR ==_/1	34-90UE 110/1	HTTEDORN mg/l	=1/1	AUFALMETTY mg/l	HARDINESS mg/l		TURNOTTY resis units	■	PHOEPIATE Pg/I	POTAL DISSOLVED DOLLDS DES/I	ber 106 mg
77776888999999	6 13 20 27 4 10 10 12 14 12 28	599 599 599 599 599 599 599 599 599 599	26.1 28.5 28.5 29.8 27.0 28.6 30.0 29.5 29.2 25.0	6.9 8.5 7.8 5.6 8.1 5.5 6.2 7.4 7.3	8.0 8.2 8.4 7.1 8.2 7.9 7.7 7.8 7.9 7.7	1.0 1.5 .8 1.4 .6 1.2 1.0 1.0 1.2 1.3 .8	12.2	- B - B - 9 - 8 - 6 - 7 - 9 - 8	3.4 3.6 3.6 3.8 4.1 3.4 3.4 3.6 4.0 3.2	.0 1.0 1.0 1.0 1.5 1.0 .0 .5	13 10 11 14 40 19 20 18 12 15 17 19 15	79 75 76 72 70 64 57 62 66 60	134 130 120 126 140 126 120 94 110 132 110 92	5	600 25 600 95 400 35 400 25 40 40 40 40 40 40 40 40 40 40 40 40 40				100 *20 - 60 *20 - *20 - 20 - *1000 *20

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CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

INDIANÀ

MAJOR BASIN

OHIO RIVER

EUB BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

EVANSVILLE, INDIANA

	DATI MAN		TEMP	DISSIONAMO				CHLORING	DEMAND	AMMONIA						ELEVATM	PHOSPHATIS	TOTAL	
E S	À.	TEAST	Dagrees Configurable	COCTEMENT	He	EOD mg/l	8	1-Hous mg/l	24-HOUR mg/l	HITEOGRA mg/l		mg/I	HARDHINI mg/l	COLÓS		-	= ₀ /1	DAMOLVED BOLDH mg/l	per 100 :
10	6	58	20.2	9.9	8.1	-	-	-	•	1.4	36	8 2	172	1	28	130		-	50
		5 B	19.6 19.4	11.1	5.7 5.8	-	_	•2	.7	1.3	35 34	79 81	182 194] =	8 10	125 140		-	91 20
10	27	58	15.9	10.0	8.5	_	12.3			•1	34	83	194	1	10	110		_	1
11	3	58	14.6	9.6	7.7	-	12.7	.0	. 9	2.2	38	98	199	-	11	120		-	240
11	10	5	12.5	11.1	7.9	-		•0	- 3	2.5	29	97	200	-	17	140		-	49
	17 24	5.0	15.1	10.2	8.0 7.9		28 • 6	•1 •7	2.8	_	29 43	98 85	201 213	_	17 28	_		_	62 65
11 12	1	548 548	12.9	10.2	7.8	2.2]	• 7	2.0	_	36	87	216	_	24	_		_	601
12	i	58	5.9	10.9	7.8	3.0	_	. 9	2.7	-	27	82	193	-	56	155		_	100
12	15	58	1.8	11.6	7.6	-	-	. 9	1.6	-	24	73	149	-	56	85		-	_
12	29	5.0	2.5	12.5	7.7	-	-	. 9	1.5	4.7	22	77	170	-	12	116		-	٠
1	12 19	59 59	2.2	11.4	7.7	_		. 3	1.2	_	22	B1	156	[140	_		-	19) 120)
i	27	59	2.2	9.4	7.5	_		1.0		_	17	68	108	-	675	_		_	100
2	2	59	1.0	10.5	7.4	-	_	. 6	7.0	-	10	40	100	-	230	_		-	630
2	9	59	2.4	11.2	8.1	-	-	. 9	6.5	-	12	62	120	-	147			-	
2	16	59 59	5.6	10.0	7.8 7.7		1	, 9	7.0	-	11	●0	134	_	522	80 85		_	37
2	26 2	59	5.4	10.5	7.5	1.7	1	1.4	6.2 6.0	3.4	11 12	52 68	113 128	_	114 89	92		_	270 470
3	10	59	6.7	-1	7.4	_	14.5	.4	5.8	4.3	15	77	142	_	82	95		_	390
3	16	59	6.0	10.5	7.5	-	4 - 1	. 5	5.8	4.2	19	75	145	_	74	105		-	48
3	25	59	8.3	10.4	7.2		9.5	1.0	5.0	2.5	15	61	128	-	62	95		-	
3	3 O	59	9.8	8.2	7•2 7•4	1.7 2.1	9.0 15.5	1.9 2.4	4 • 4 5 • 7	2 • 2	14 16	65 65	138 123	_	33 76	95 70		-	231 301
		59	11.3	-	7.2	1.7	17.1	< · ·	-	'-	15	48	106	-	80	80			550 550
4	23	59	12.7	-	7.2	-	-	2.0	8.0	-	12	45	90	_	120	75		_	
		59	15.5	8 . 4	7.4	. 9	-	1.6	4.0	. 9	14	60	105	-	82	60		-	630
5		59 59	18.4	-	7.2 7.2	1.1	1	-	-	-	14 15	60	115	-	60	90		-	
		59	19.1	<u> </u>	7.4	-		_	_[_	13	50 61	126 124		74 46	105 110		_	
		59	20.9	- 1	7.2	_		_	-	_	15	68	128	_	102	90		_	
6		59	24.0	-	7.4	-		-	-1	-	13	74	146	-	62	110		-	
6		39	26.1	-	7 • 6	-		-	-	-	19	78	147	-	37	75		-	
		59 59	25.1	-	7.5 8.1	_ [j	_	-	-	22 18	76	150 148	_	28	170		-	
6	29	59	27,8	-	8.0	_]	コ	-1	<u>-</u> 1	-1	17	60	147		10 15	120 65			
7	6	59	27.2	-	7.8	-	4	-	-	_	17	87	154	_	10	100		_	
					ł	ľ	Į												1

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

INDIANA

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

EVANSVILLE: INDIANA

Table Description Progress
7 20 59 28 4 - 7 9 20 72 152 - 2 150 - 7 27 59 28 2 - 7 8 24 85 174 - 30 175 8 10 59 27 0 - 7 8 26 84 175 - 8 190 26 84 175 9 28 4 - 7 8 26 84 175 - 8 190 8 24 59 29 5 - 7 8 30 76 155 - 14 130 8 31 59 29 2 - 8 22 34 78 174 - 12 135 9 14 59 24 3 - 8 6 42 85 193 - 7 130 2 - 9 21 59 23 2 - 8 6 42 85 193 - 7 130 - 9 21 59 23 2 - 8 6 42 85 193 - 7 130 9 21 59 23 2 - 8 6 42 85 193 - 7 130

STATE

OHIO

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER M510 AT

CINCINNATI, OHIO

	DATE							CHLOSSE	DENAMO								<u> </u>	TOTAL	
HUNDS	ž	TANK T	(Degrees (Degrees Castigrade)	mil/I	pH	■ 0 D ■ 4 /1	c 0.0 ===/I	1-HOUR	24-HOUS mg/l	AMMORIA- HITEDOEN HIJ/I	GEORDS	AUXALENTY mg/l	HARDMIN	COLOR (seein walk)	TURNOTTY (April 1986)	RAJATE Rej/I	PHOSPHATES HIS/I	DESCUENT BOLIDS Hg/I	per 100 mi
10	1	58	20.4	7.4	7.4	.8	9.1	1.7	4.9	1.0	28	49	154	20	35	113		285	960
10	8	58	19.5	8.4	7.6	2.1	10.1	1.7	6.0	1.1	♣ 8	52	167	20	10	114		331	170
10	15	58	19.0	10.3	8.4	2.5	12.7	2.3	7.7	1.1	38	57	159	10	15	110		307	67
10	22	58	18.0	10.9	8.7	3.1	15.3	1.5	6.4	. 5	35	60	177	10	15	124		308	1100
10	29	58	15.3	10.2	7.9	2.3	14.3	2.2	6.8	1.7	42	55	171	10	10 10	118 130		319 353	440
11	5	58	14.1	10.5	7.5	1.6	4.5	3.5	6.5	3.7	54	36	185 194	10 10	15	152		392	1800 330
11	12	58	12.4	10.5	7 - 3	1.4	6.1	5.7	9.4	3.0	64 55	53 59	193	20	25	138	1	353	940
11	18	58	15.1	10.6	7.5	3,•5	12.7	5.6 4.6	10.4	2.6 2.9	48	40	190	10	20	157		366	1300
11	26	58	12.5	9.7	7.3	2 - 3	17.4	3.6	6.4	2.4	43	45	142	15	40	93		273	6000
12	10	20 58	7.1 3.2	10.5 10.9	7.4 7.3	1.7 2.7	18.1	6.0	10.8	3.9	36	45	133	20	80	87		243	6900
12	17	58	1.0	13.9	7.4	1.7	7.9	5.7	8.0	3.4	30	48	134	20	25	92	1	257	"-
12	24	58	1.6	13.7	7.6	1.7	ه د	5.6	8.6	3.3	30	49	137	10	20	в7		246	_
	31	58	1.7	13.6	7.3	1.4	9.2	7.4	11.3	B.O	31	51	137	10	30	92		268	-
1	7	59	1.5	12.4	7.4	1.8	36.5	8.0	13.5	3.8	37	50	133	20	100	87		239	3500
	14	59	1.0	13.7	7.4	1.5	5.2	7.2	13.3	4.4	41	59	153	20	40	93	1	285	2700
	21	59	1.3	12.2	7,2	5.9	26.d	5.9	13.6	2.6	22	47	122	40	550	64		190	13000
	28	59	1.1	11.6	7.3	2.1	36.7	4.6	10.0	2.0	15	29	73	40	350	43		126	3700
2	4	59	2.0	12.4	7.3	1.7	25 . 5	3.9	9.5	1.9	16	37	95	30	170	62]	173	B000
	11	59	3.7	11.9	7.3	1.5	48.1	3.5	7.2	2.1	24	49	110	40	350	4.5		170	13000
	18	59	5.2	11.2	7.0	1.6	39.4	3.2	7.7	1.7	15	33	83	50	230	53	1	140	6100
	25	59	3.5	12.0	7.3	1.5	6.9	2.5	4.8	1.9	18	34	97	40	150	62		172	7000
3	4	59	4.9	11.2	7.2	1.5	21.7	3.3	7.0	2-1	24	46	123	20	120	75	l l	195	4800
	11	59	5.6	10.4	7 - 3	6.2	27 • 4	3.3	7.7	2.0	27	47	122	20	110	76	1	201	7600
3	10	39	5.6	11.0	7 • 4	1.7	30.2	3.3	5.8	2.1	20	35	103	20	140	62	1	166	11000
1	25	59	7.0	11.0	7.2	1.7	15.5	2.5	5.7	1.6	20	36	106	20 20	100	67 71		215	5500
*	1 8	59 59	9.5	9.3	7.3 6.9	2.1	27.9	4. B	7.0	2.3	25 22	38 32	100 91	20	100 160	38	1 1	188 149	3000
7		59	10.7	9.4	6.9	. 5 1.0	22.B	2.8 2.9	5.8	1-4	12	27	75 75	20	130	53		139	3600 2900
- 7	22	59	12.4	8.8	7.0	1.6	34.6	2.5	6.0	.6 1.1	12	32	77	20	130	64	1	140	1600
- 7	29	59	14.6	8.3	6.9	1.7	46.6	2.3	6.7	1.1	15	35	90	20	120	58		172	780
5	6	59	17.6	6.9	7.0	1.7	16.1	3.2	8.0	.7	16	36	103	20	210	71		184	1100
- 1		59	20.6	6.9	7.1	1.8	30.0	2.8	6.7	. 8	16	44	104	20	140	66		180	1700
		59	18.8	6 . B	7.1	1.4	23.1	2.8	8.7	1.0	16	42	102	20	210	64		235	920
		59	22.6	8.2	7.3	2.1	11.9	1.7	7.6	.4	23	44	130	10	55	98]]	224	770
6		59	24.7	5.5	6.9	1.1	23.7	1.6	4.7	. 3	30	44	132	10	95	83		230	1900
		59	25.2	6.9	7.2	. 6	13.3	1.1	3.7	. 5	24	40	106	15	60	65		214	940
		59	24.9	9.2	8.0	2.2	12.6	1.9	B . B	.3	25	48	116	10	30	70		212	-
6	24	59	25.4	8.1	7.4	1.8	9.9	1.6	5.2	• 2	28	52	133	10	15	85		279	1000

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

OIHO

MAJOR BABIN

OHIO RIVER

SUB BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER M510 AT

CINCINMATI, OHIO

	DATI		TRACE	DHEBOLVED				CHOOSE	DEMAND	AMMONIA-								TOTAL	
HLL	ă	YEAR	Carlymin)	DEYGGA mg/l	, 1 11	LO D ■ L /1	C O.D ■42/1	1-HOUE	34-HOUZ ====/l	HETROGEN mg/l	eq/i	ALKALBATTY mg/l	HARDHINGS mg/l	COLOR (seek publ)	TURNEDITY (senio units)	9.04∏5 ■#/I	PHOSPILATES mg/l	pissouved sours mg/l	per 100 pil
777778888999999	1 8 1 3 2 2 9 5 1 2 1 2 6 2 9 1 6 3 3 0	555555555555555555555555555555555555555	28.8 27.6 28.4 28.2 28.2 28.6 29.1 29.1 29.2 24.8 23.4 24.8	7.9 8.2 7.5 6.5 7.3 8.7 8.0 6.4 9.5 10.2 7.9	7.3 7.8 7.7 7.4 7.9 8.7 7.8 8.5 8.9 8.6	2.3 2.7 1.5 1.8 1.8 2.4 2.7 3.1 2.9 3.2 3.3	14.3 12.9 7.0 15.5 6.9 15.1 11.1 6.8 14.4 14.6 14.5	2.4	7.2 7.6 7.9	.0	43 53 - 40 45 57 60 50 50 50 50 72	55 54 57 63 68 63 55 50 43	169 191 1- 166 171 170 180 158 183 183 171 189	20 10 10 10 10 20 10 20	9 7 5 20 9	123 147 123 115 106 120 94 112 138 145 138		365 361 342 330 340 340 357 357 388 369	#770 2000 170 220 900 200 77 6500 42 260 2400 100 220 350

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WEST VIRGINIA

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

HUNTINGTON, WEST VIRGINIA

	DATI							CHLOSER	DEMAND									TOTAL	
НШном	à	13 E	TIBLE (Degrees Consignate)	COCYNEID COCYNEID MIROLVED	p#I	8 CLD, re-g./l	- /1	1-HCMJR ==0/1	24-HOUE	ALMONIA- HITEORIA mg/l	=g/I	ALKALINITY =g/l	HARDNESS mg/l	COLOR	TURNIDITY (scale suits)	EULFATES mg/l	PHOSPHATES By/I	BOLIDE BOLIDE mg/l	per 100 mi
10	1	58	20.0	_	7.0		_	-	_	3.5	47	41	158	15	27	166		380	
10	В	58	19.9	-	7.2	-	-	-	-	2.5	29	42	143	10	13	113		330	440
10		56	18.9	-	7.3	-	25.0	_	_	2.0	32	37	151	10	16	130		330	₽10
10		55	18.4	-	7.3	-	-	-	_	2.0	42	41 39	162 178	10 5	9 11	137 211		340 370	190 1100
10		55	16.3	-	7.2	-	-	-	-	3.0	52 66	43	178	1 2	9	178		420	290
11	5	39	14.4	-	7.3 7.3	-	1 3	-	_	6.5 7.0	56	44	180	15	18	158		380	40
11 11	12 19	5 B	12.2 11.7	-	7.3	-	15.3	_	-	6.5	55	38	190	15	14	182		360	1300
11	26	58	13.2	-	7.2	_]	_	_	B.O	42	32	168	20	18	144		340	510
12	3	58	7.2	_ _	7.2	_		_	_	5.0	36	36	132	25	16	110		280	390
12		58	2.7	-	7.1	_	8.5	_	_	5.0	29	36	122	20	51	115		280	4500
12	17	58	2.7	_	7.1	_	"]	_	_	5.0	29	36	120	15	20	118		260	_
12	24	5 B	2.2	-	7.1	_	-	_	_	7.5	26	34	122	15	14	136		260	_
12		58	3.0	_	7.3	_	-	-	_	14.0	41	4 3	120	15	19	102		280	_
1	7	59	4.3	_	7.1	_	-	-	-	8.0	41	47	132	15	75	139]	320	3500
1	14	59	2.2	-	7.2	_	18.0	-	_	8.5	33	37	129	30	13	144		340	2000
1	21	59	2.7	-	7.0	-	l	-	-	10.0	16	31	104	35	250	103		160	3500
1	28	59	2 • 2	-	6 . B	_	I ⊣	-	-	3.5	13	23	62	35	250	53		150	1100
Z	4	59	3.B	-	6.9		-	-	-	5.0	18	31	90	20	165	96		180	2500
2	11	59	5 1	-	7 - 1	-	18.2	-	-	B • O	19	35	98	35	135	96		180	5500
2	18	59	6.1	-	7.0	-	1	-	-	3.0	7	28	72	70	160	48		140	4400
2	25	59	3.3		7 - 1	-	1 1	-	-	5.0	19	38	106	20	110	101		150	4800
3	11	59 59	6.3 5.9	<u>-</u>	7.1 7.1	_	آ مد ا	_	-	6.5 5.0	24 18	40 34	130 98	15 20	75 75	130 72		230 200	4800
3	18	59	7.3	_	7.0	_	20.5	_	_[2.0	14	33	100	20	120	96		160	5100 3300
3	25	59	8.4		7.0	_		_	_	5.0	17	31	98	10	95	84		180	1500
4	1	59	10.0	_	7.1	_	l ⊒	_	_	4.5	17	31	50	15	180	75		200	18000
4	В	59	11.5	_	7.2	_	4	_	_	4.5	15	24	68	10	105	69		180	4500
4	15	59	10.2	_	7.0	_	4	_	_	9.5	10	23	67	50	230	70		140	6200
4	22	59	12.7	_	7.5	_	-	_	_	2.0	15	29	80	15	37	96		120	900
4	29	59	15.4	-]	7.3	-	-	-	-	4.5	22	35	99	15	65	101		220	1600
5	6	59	18.0	-	7.3	-	-	-	-1	2.5	13	28	86	20	110	50		180	590
5	13	59	20.0	-	7 . 3	-	⊢	- [-1	2.5	19	31	104	15	55	115	'	170	' <u>-</u>
	20	59	19.2	-	7.3	-	27.3	-	-	4.0	17	40	115	15	77	98		200	1400
		59	22.8	-	7.3	-	∣ ⊣	-	-	2.0	6	22	112	5	33	91		220	2700
6	3	59	24.4	-	7.4	- 1		-	-	3.5	30	37	128	7	33	50		260	_
6	10	27	24.4	-	7.5	-	20.2	-	-	2.0	18	36	104	10	20	96		220	_
6	17 24	59	22.2	-	7.5	-	1	-	-	2.5	33	34	120	20	20	110		280	50
0	4	59	22.2		7.5					3.0	33	35	128	20	9	144		320	*100

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WEST VIRGINIA

MAJOR BASIN

OHIO RIVER

SUB BASIN

OHIO RIVER MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

HUNTINGTON: WEST VIRGINIA

	MIN.	<u>.</u>	THE	DHEIGLYED				CHORPE	CHAMES	AMMORRA								TOTAL	
FL WON	ž	-	Dagers Carterate	DXYWMA mg/l	pål	■ O.D. ==g/1	دمه ا/ي	1-HOLE ==/1	34-HOUE =4/1	MITEORIA MITEORIA MITEORIA	CHOEDE mg/l	AUKALBOTY mg/l	HARDNESS Hg/l	(COLOR 		≈4/I	MOLINATE Na/I	hilleotives Scalast mg/l	Per 100 ml.
7 7 7 7 7 8 8 8 8 9 9 9 9	1 85229521262296330	59 59 59 59	27.4 27.6 25.5 26.6 17.8 17.1 26.9 27.2 28.1 23.7 22.4.4		7.7 7.7 7.5 7.8 7.4 7.4 7.3 7.4 7.7 7.3		15.6 26.7 15.2		-	3.5 12.0 6.0 12.0 4.0 2.5	59 70 57 83 72 60	42 35 43 47 51 46 46 49 34 36	174 186 208 178	20 10 10 10 5 7 10 3 5	6 18 9 9	158 182 139 155 178 113 168 187 302 156 185 158		390 370 400 300 480 380 460 460 480	110 190 *10 *100 *80 180 99 940

STATE

OIHO

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

OHIO RIVER

SUD BASIN

OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION OHIO RIVER AT

EAST LIVERPOOL. OHIO

DATE OF MARKET	TURE	DIESOLVED				CHLOUNE	DENIAND	AMMONEA-	CHORDS	AUKAUNITY	HARDMIN	COLOR	TURNIDATY	SULPATION	PHOSPHATES	TOTAL Dissolved	COLPORES
	Degrada adigrada)	DXYMMA mg/l	144	300	-4 /1	1-HOUE mg/l	24-HOUZ mg/l	HETEOGRAPH Mag/1	■ 2/1	=4 /1	mg/I			 /1	- g/l	HOLDS HELDS	per 100 ed
4 28 59 5 4 59 5 12 59 6 1 59 6 8 59 6 15 59 6 29 59 7 6 59 7 6 59 7 20 59 8 10 59 9 1 59 9 1 59	9.00 6.0 7.00 9.00 99.00 10.00				17.4	1.2 1.5 1.6 1.4 1.5 1.0 1.0 1.0 1.0 1.0 1.0	1.2 1.5 1.6 1.4 1.5 1.0 1.0 1.0 1.0 1.0 1.0		5533-367099980-00025444-43		1160 117 104 104 104 104 104 104 104 104 104 104	8	18 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18				5300 10000 6300 8800 9800 14000 1700 7700 12000 6800 2900 6000 3600 5600 5700 12000 6500 5700 12000 6700 4500 2900 5300 6700 4500 2900 5300 6700 4500 2900

MARTLAND

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

GREAT FALLS, MARYLAND

	DATE	u T	TIMP.	PARKOLVED.				CHLORNE	DEMAND	AHMONEA								TOTAL	
НШОВ	DAY	YEAR	Dagress Castlyredal,	C207900H mg/1	High	8.0.D. ■ 3 /1	<u>coa.</u> ≈€/i	1-HOUR == ₀ /1	24-HOUR ==0/I	HITROPEN mg/l	mg/l	ALEALINITY mg/l	HARITHMUS Rug/I	hear mys	(masterial)	EUATE DE/I	PHOSPIATES	DEROLYED SOLER eq./1	COLPONIS per 100 mL
10		50	15.6	814	9.1	4.0	17.3	3.8	6.0	.1	11	81	102	15	20	46		163	84
	13 20	56	14.4	7:4 8:5	9.0	5.2	15.3	3.6	5.4	.1	11 14	89 89	116 116	15 15	16 18	45 41		185 174	100
		58	15.0	7.6	7.9	2.4	14.5	2.7	5.3	.4	12	86	104	15	17	44		145	100
11		30	11.1	9.2	8.1	2.4	10.5	2.7	3.6	. 2	14	105	128	ij	18	63		210	74
	10	58	9.4	10.4	8.1	2.6	11.7	2.7	5.3	.3	14	89	116	15	18	49		184	60
	17	50	12.2	8.8	8.1	.8	5 • 5	1.9	3.7	•3	12	96	118	15	12	3 ▮		182	74
	24	58	5.3	11.2	B.3	2 • 2	7.9	1.9	4.1	•1	14	103	130	15	10	52		207	67
12	1	58	1.1	, , ,	8.3	4.6	8.9 10.9	1.6	4.6 5.9	•3	11 12	85 63	122 98	15 15	12 12	44 29		178 160	990 2600
12	15	30	. 6 . 6	13.4 14.0	B . 2	3.5	9.5	1.9	4.1	.3	13	91	132	15	10	42		176	130
12	22	50	. 6	14.7	8.5	3.6	11.4	1.7	5.7	.3	15	97	140	15	7	49		202	
12	29	58	.0	14.5	8.6	3.6	5.3	1.5	3.6	.2	15	98	130	15	4	53		212	-
1	5	59	.0	11.9	7.7	11.9	41.0	2.0	4.7	1.5	12	49	74	50	170	24		105	2600
1	12	59	.0	13.6	8.0	3.5	13.6	3.6	7.6	1.3	9	83	130	20	14	47		189	220
1	19	59	.0	14.3	8.2	5.5	6.9	1 - 9	4.3	. 6	13	81	128	15	7	43		193	140
1	26	59	• 0	11.7	7.6	6.8	27.6	4 . 4	9.8	2.3 1.0	7	49	90	40 25	400 20	30 31		149 156	900
2	2 9	59 59	• 0 4 • 5	10.9	7.B 7.5	1 • 8 4 • 3	8.7 13.4	1.7 1.3	4.3 6.4	1.0	6 10	52 51	80 86	40	32	31		148	700
2	16	59	3.5	11.5	7.5	3.5	15.B	3.6	7.5	2.5	109	37	6-8	30	120	29	·	129	1500
2	23	59	2.5	12.9	7.5	3.9	7.8	1.7	2.6	.5	14	45	70	20	20	30		135	-
3	2	59	6.1	11.4	7.9	2.6	4.9	1.5	2.7	.2	13	57	88	20		31		136	_
3	9	59	5.0	11.0	7.6	4.4	21.3	4.0	7.3	. 5	7	46	70	40	170	29		120	2900
3	16	59	5.5	11.4	7.8	2 • 6	6.6	2.4	3.9	.2	8	48	6.8	35	18	28	ļ	109	1300
3	23	59	6.5	10.5	7.9	2.5	7 ₀ 8	1.8	4.6	.2	8	44	64	10	17	25		136	1000
3	30	59	8.0	9 • 2	8.1	1.0	5 • 4	1.4	3.4	,1		52	76	10	16 65	24 24		118 113	1800 2600
•	6	59	11.0	9.2	7.7	1•4 2•3	13.7	4.2 2.6	7.2 5.8	.5	14 13	43 42	64 64	25 25	35	24 17		97	7000
4	13 20	59 59	9.0 15.5	9.7	7.7 7.4	2.3	12.0	1.9	5.5	5	14		68	10	35	23		94	1400
4	27	59	18.0	7.0	7.8	202	B.1		6.0	2	1	54	76		16	22		132	980
5	4	59	16.5	7.2	7.6	1.0	11.1		7.5	.4	7	39	58	25	55	20		108	-
5	11	59	18.0	7.B	7.8	1.0	6.2	2.0	5.9	-1	7		76		18	20		106	-
5	18	59	16.5	8.2	7.7	1 • 2	11.0		4.6	.5	10		6-8	25	35	26		110	1100
5	25	59	21.0	7.0	7.7	1.2	11.1	2.7	4.6	.6			74 84	-	100	22 24		105 116	2100 500
6	1	59	22.0	6.0	7.8	1.6	5 • 4		6.2	.6	22		76	1		21		132	3400
6	8	59	22.0	7.0	7.7	1 • 2 2 • 0	15.2	1	6.8	•5			88			22	1	130	1
6	15 22	59 59	22.0 23.9	7.4	8.0 8.9	3.7	9.2	1	4.9	1		1	98	1 -			1	-	600
6	29	59	31.0	5.1	7.9	1.8	9.6	1	3.9	1 .7	1			_		30		141	920

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MARYLAND

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

GREAT FALLS, MARYLAND

	DATE							CHLORDE	DEMAND									TOTAL	
НД	à	**************************************	THEF Pagran Cantigrania	mili/J DXLAMI DESOCARD	pět	8 0 D mg/l	E.O B ■ 4 /l	1 HOUR	24-HOUR	AMMONEA- HETEDORNI mg/l	CHLORIDES mg/l	ALKALENITY	HARDNESS mg/l	COLDE 	TURNIDITY	EALFATE Hg/I	PHOEPHATES =3/1	DISSOLVED BOLEDS ==g/I	COLFORMS
77778888899999	20 27 3 10 17 24 31 7 14 21	99999999999999999999999999999999999999	26.5 24.4 26.6 30.0 27.7 25.6 27.5 27.0 22.5 19.0 26.5	6.4 5.5 6.9 6.6 5.0 6.2 5.8 6.1 7.6 8.2 7.2	8.27 8.27 8.47 7.47 8.4 8.4 8.4	1.5 1.9 1.0 3.1 3.0 6.4 4.8 1.4 2.0 2.8	13.2 11.2.4 12.4 13.0 13.5 14.8 9.7	1.3 1.4 .9 2.1 2.2 2.2 3.1 2.0	4.9 5.6 4.3 10.5 3.1 4.5	.4 .6 .7 .6 .3 .7 .6 1.2 .7 .5 .5	7 11 9 9 12 11 12 9 15 - 15 18 16	87 52 75 77 74 86 64 80 77 86 93	110 120 112 108 102 126 104 122 130 126	6 7 8 9 8 12 25	14 18 19 16 43	37 42 35 34 49 34 27 35 52 52		136 140 148 178 168 165 169 190 205 188	170 550 1500 80 57 6000 920 500 *200 300

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MARYLAND

MAJOR BASIN

HORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

WILLIAMSPORT, MARYLAND

DATI OF JAN			TEMP	DESECTAND				CLOSE	DIMENSO	AMMONIA							PHOSPHATES	TOTAL	COLIFORNI
PAY DAY		. إ		DXTERN mg/l	1	 /I	 /I	1-Hout =u/I	24-HOOR mg/l	HETTEOGRAFI mg/I	CHLÓNIDE Hg/l	ALEAUHITT Mg/1	#4.FPH#5		TURN-DITT	my/I	mg/1	DESSOLVED SOLECT Pag/1	per 190 mi
10 6 10 10 10 10 10 10 10 10 10 10 10 10 11 11	5555555704185296296325966	88888888888888888888888888888888888888	15.0 14.0 14.0 11.0 10.5 9.0	8.9 8.0 7.6 10.2 10.3 10.6	7,0	1.1 2.1 5.5 1.8 	12.5		==q/1			76 - 56 - 82 70 86	152 152 162 164 140	300 200 300	14			216 110 174 184 - 224 - - - 110 - 110	51
4 1 1 4 2 2 4 2 5 5 1 5 1 5 2 5 6 6 1	3 6 0 3 4 1 8 1 5 8 5	75555555555555555555555555555555555555	14.0	9 • 6 	7.1	2.2	11.	1 9	-			41	6 6	6 1:	5 15	5 -		98 	300 90 180

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MARYLAND

MAJOR BASIN

NORTH ATLANTIC

SUB BASIN

POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT

WILLIAMSPORT: MARYLAND

	MII MU			DISPOLVED				CHLORNE	DRIMAND	AMMONIA-				_				TOTAL	
HUHOM	PA.	272	(Degreen Contigrado)	COXYESEN mg/l	Hap	BLO D mg/l	= /1	1-HOUR	34-HOUE eq/1	PAL/I	May/I	ALKALIMITY mg/l	HARDNESS Rej/I	cotos	(Income maile)	RAINTS	PHOSPHATES PHy/I	TOTAL DISSIPLIVED ROLLDS Mg/1	COLFORNI per 100 ml
6777778BB8899999	8 13 20 23 27 30 3 6 10 113 14 17 21	99999999999999999999999999999999999999	24.4 	10.9 9.3 - 7.3 - 6.6 6.0	7.4	1.0	15.0					68	122 126 124 116 134 	15 - 5 - 5	10 12 8 12 2 2			298 212 228 - 238	350 260 170 2200 180 - 170 230 73 - 90 - 73

STATE LOUISIANA

HAJOR BASIN CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER RED RIVER BELOW DENISON

STATION LOCATION RED RIVER AT

ALEXANDRIA, LOUISIANA

	DATI MAN	44	THE	DESIGNATION				CHORN	DEMAND		_								
HILL	DAY	¥.	(Dagreen Candigerals)	02T****	p#i	■.0 D ==/1	C.O D ====/1	I-HOUR mg/l	24-HOUE Hg/l	HETROGRAN HETROGRAN Hag/I	CHLOUDIS mg/l	ALKALIMITY mg/l	HARRINGS mg/l	201.04 	TURNEDITY (made made)	330470 -3 /1	PHOSPHATES	TOTAL DESIDEVED SOLEDS mg/I	COUPORIES per 100 ml
10	13	50	-	-	_	_	_	_	-	_		_		_					2100
10	20	54	-	-	_	_	1 -	_	_	-	_	-	_	1	_	_	!		1200
11	3	54	-	-	-	-	-	-	_		_		_	ł .	_	-	f i		6200
11	17	54	_	-	-	-	-	-	-	_	_	_	_	1	_	_	i	_	3700
12	1	58	-	-	-	-	(-	_	_	-	_	ا	_	- 1	_	_	Į I	_ 1	12000
12	8	54	-	-	-	-	-	-	_	-	-	_	_	_	_'	_	.	_ '	1900
12	15	54	-	-	_	-	-	_	-	l –i	_	1 -	-	l -	_	-	1	-	9800
1	5	59	-	-		i -	-	-	_	(-	_	(-!	_	- 1	_	-		_	2100
1		59	-	-	8.1	-	23.7	6.0	16.0	2 • 2	144	138	221	40	34	67		511	
1	12	99	-	-	-	-] -	_	-	-	_) <u>-</u> '	_	} _	-	_	1	-	2900
1	19	57		-	.	-	- ا	_	-	-	-		-	-	_	-	ĺ	' <u>-</u>	1200
1	26	55	9.0	-	7.7	_	22.2		14.9	1.5	99	96	168		120	+4	}	345	15000
2	2	59	71 0	-	7.9	-	18.0		12.5	1.0	104	100	164	20	103	4.8	1	380	•
2	3	59	11.0	-	7.6	-	24.5	5.4	15.4	1.4	70	1	109		218	37	l l	278	•
2	10	59	13.0	-	8.5	-	18.7		12.5	2.0	101	69	117		258	43]	341	4200
2	16	59		-	8.2	-	16.2		14.3	1.4	109	77	136		143	46	1	371	•
2	23	39	13.0] -	8.0	_	20.5	,	16.9	1.6	51		75		445	12	1	162	7700
3	2	59	13.0	-	8.2	-	21.7	2.6	7.1	1.8	73	51	77		178	16		227	7300
3	10	59	13.0	-	7.8	-	19,6	3.0	8.0	1.6	56		83		285	19	1	212	5500
3	16	59	13.0	-	7.8	-	25.7	1.4	7.3	2.6	43		75		725	19		168	11000
3	24	59	13.0	-	8.1	-	20.6	2.6	4.9	1.2	40	51	68	30	270	17		167	770
3	30	59	-	-		-	-	-	-	-	-	,		-	! -	-	j,	- :	3400
4	6	51	-	-	7.9	_	16.2	2.5	6.6	1.2	76	56	100	30	195	42	l i	275	8900
4	13	57	-	-		_	_	-	-	-	-	-	-	-	-	-		-	9000
4	27	59		-	8.3	-	21.6		4.5		54		84		340	25		205	
5	4	54	25.0	-	7.6	_	23.6		3.9	2 • 2	42		70	30	180	17		181	2500
5	18	59	26.0	-	7.5	-	22.9	1	6.5	2.4	82		138		65	42		328	1600
5	25	59	26.0	-	7.7	_	20.5		4.6	, –	33		89		415	18)	174	•
6	3	59		-	8.1	-	19.7		2.4	1.2	31		73		300	11		159	4400
•	15	59	28.0	-	7.7	_	23.0		4.0	2.4	4.2		76		180	11	1.	169	BO
•	23	59	27.0	-	7.8	_	25.7		3.0	1.8	56			1	115	26	1	234	1000
•	29	59		-	B • 4	-	25.2		2.3		79		132		96	41		326	1500
7	7	59	30.0	-	B • 3	_	23.1		2.5		118		173		90	69		446	1200
7	15	5-	30,0	-	7.7	-	20.8		2.9		8 9				178	57		379	-
7	20	59		-	7.8	-	18.6		2.0		138		195	i	43	90		553	-
7	27	59	28.0] -	7.8	-	26.0		. B	_	81			_	700	55	1	342	9800
8	17	59	30,0	-	7.7	-	25.8		2.1		93			_	180	69	1	400	4000
	24	59	28.0	-	7.7	-	23.2	.8	2.1	1.8	136	131	200	20	58	97	1	559	500

LOUISIANA

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

BUD BASIN

LOWER RED RIVER BELOW DENISON

STATION LOCATION RED RIVER AT

ALEXANDRIA, LOUISIANA

	DATE		ТВАР	DESECUTION				DEODNE	DEMAND	AMUGNEA-		ALKALINITY	HARDNESS	coros	тивышту	RULFATTE	PHOSPHATES	TOTAL	COLFORMS
н	ž	YEAR	(Dagrass Contigrado)	==_/I	p#I	= /I	C D D -3/I	1-HOUR ===[/I	34-HOUR ==g/I	METEO-MEK ==_/I	==/1	/1	= 0/1			=3 /1	-	HOLIDS HOLIDS	per 100 mi
9 9 9		59 59 59 59	29.0	7.7 7.0 7.2 6.9	8.1 8.0 7.7 7.8 7.9	1.8 1.0 2.0 2.4	73.7 15.8 28.6 9.6	2.1 1.7	5.7 5.5 5.3	2.6 .4 .6 .4	274 124 146	141 84 128	304 364 179 215 251	10 20 20	25 56 40	181 61 72		904 915 443 498 567	3500 730 2300 2100

STATE

ARKANSAS

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST LOWER MISSISSIPPI

SUB BASIN

LOWER RED RIVER BELOW DENISON

STATION LOCATION RED RIVER AT

INDEX, ARKANSAS

DATE OF MANY	.	TRAC	DESCUVED				CHLOIDH	DENAMO									TOTAL	
PA Y	3	Popula Configurate	DXYWEN	p#4	10 p mg/1	- 4/1	1-HOUR	24-HOU1 ==0/I	HETEDGEN HETEDGEN	CHLORIDES mg/l	ALEALMITY	HANCHES mg/l	COLGE (scale water)		SUATS mg (PHOSPHATES mg/l	BOLD1	COLIFORNIS per 100 ml
2 24 2 9 169 131 8 131 227 4 11 19 2 1 9 166 66 67 77 77 8 8 10 10 5 5 6 6 6 6 6 77 77 7 8 8 8 8 2 2 8	5,55,55,55,55,55,55,55,55,55,55,55,55,5	13.0 12.0 12.0 16.0 16.0 22.0 21.0 24.0 21.0 25.0 25.0 27.0 25.0 28.0 29.0 28.0 29.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28	10.4 9.6 8.7 9.3 10.2 7.4 8.9 9.4 8.5 7.0 6.9 7.7 6.9 7.7 6.8 8.1 7.3 6.8 8.1 7.3 6.8 8.1 7.3 6.8 8.1 7.3 6.8 8.1 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 7.3 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	8.0 8.1 7.7 8.0 7.7 7.7 7.3 7.7 8.1 8.1 8.3 7.6 8.1	3.3 2.6 4.8 2.5 2.1 2.0 1.3 - 2.4 2.0 1.5 1.6 3.5	16.4 11.5 27.9 24.5 3.1 26.7 25.4 33.8 25.9 11.0 24.9 11.1 11.3 4.5 11.3 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3		2.50 5.10 2.55 10.4 6.55 6.66 8.7 6.3 8.99 8.99 8.99	6.5 .0 7.1 3.7 .3 21.4 1.8 .0 2.4 1.5 1.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	440 375 371 410 300	108 138 64 80 104 72; 88 104 9 9 9 118 158 76 100 70 132 132 120 52 52 57 58 50 50 50 70	132 250 140 174 144 248 144 166 290 308 80 148 220 232 190 207 330 111 134 177 381 344 401 377 344	20 240 200 1200 2000 1400 25 100 23 100 25 1	480 175 114 168 330 96 168 102 18 24 78 108 84 28 32 32 38 99 90 49 90 330 49 90 49 90 49 90 49 90 49 90 49 90 49 90 49 90 49 90 49 90 90 90 90 90 90 90 90 90 90 90 90 90	28 27 48 32 180 34 72 104 78 120 137 28 26 73 80 90 94 124 110 81 84 84		270 537 350 469 864 523 392 745 414 480 770 772 264 311 14 61 64 648 594 470 617 973 317 462 814 979 1194 1006	270 *204

STATE

TEXAS

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN

LOWER RED RIVER BELOW DENISON

STATION LOCATION RED RIVER AT

DENISON, TEXAS

_	DATE							CHLORES	DEMAND									TOTAL	
НШМОН) Ad	3	TESP Degram Configurable	DESPOLVED DETWEN mg/l	på4	==\/1	€0.D /I	1-HOUR	24-HQUB mg/l	AMMONIA- NETEDBEN mg/l	CHORDE	ALKALINITY ===/1	HARDNESS mg/l	cores	TURNIDITY (seek mits)	EJUATEI	PHOSPHATES	Dissolved SOLEDS mg/f	COLIFORMS
	39 18 20 17 25 31 17 12 19 20 21 27 42 41 15 22 29	59 59 59 59	7.2 7.2 8.9 8.9 10.5 11.1 11.7 12.8 13.3 18.3 21.1 21.1 22.2 23.9 25.6 26.1 26.1 26.1 25.5 25.5		7.9 7.9 7.9 8.0 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8							114 113 116 118 118 118 118 119 120 130 136 14 126 114 118 122 120 118 112 112 110 102 112	3400 4509 4509 4509 4509 4509 4509 4509 4		15 15 15 15 15 15 15 15 15 15 15 15 15 1				*3 *3 20 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 230 21 7 15 7 3 *330 30 13 3

STATE

TEXAS

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

HAJOR BASIN

WESTERN GULF

SUB BASIN

LOWER RIO GRANDE BELOW PECOS

STATION LOCATION RIO GRANDE RIVER AT

LAREDO, TEXAS

Tagenda DXYMEN pH 8.0.0 C.O.D. HITROPHA CROSSES ALKALINITY HARRING COLOR TURNSTY SULATE PROPHATE DOS	TAL DLYND LIDI per 180
	l _
10	- 280 - 90 - 70 - 160 - 100 - 111 - 39 - 20 - 20 - 111 - 31 - 20 - 21 - 31 - 31 - 31 - 31 - 31 - 31 - 31 - 3

STATE

TEXAS

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

WESTERN GULF

BUB BASIN

LOWER RIO GRANDE BELOW PECOS

STATION LOCATION RIO GRANDE RIVER AT

LAREDO, TEXAS

_	DATI		TIMP	Distal Vilo				OLOUN	PENAND	AMMONIA								TOTAL	
н	à	3	(Congress Constituted)	COTYGEN mg/l	pH	800. =/I	EOD ■/I	1-HoUE	34-HOUR ===/1	NETROPEN PG/I	GLOEDE	ALEALDITY	HARDNING mg/l	(COLOR		==/I	PHOSPILATES BE/I	POLIDE POLIDE PRE/I	COLIFORMI per 100 mil
77778888999999	14 21 28 4 11 18 25 2 8 15 22	999999999999999	29.5 29.0 29.0 29.5 31.0 28.8 29.5 26.1 28.0 29.0		8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3		18.8	- -			100 64 100 90 84 90 88 36 30 35 64	131 129	251 2244 2344 2212 2140 2190 183 238		78 6000 3000 7600 270 35 200 11200 3800 780 450	132 132 145 105 153 160			450 10000 13000 120 40 1300 4500 71000 3700 2200 1100

STATE

TEXAS

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

WESTERN GULF

BUB BASIN

UPPER RIO GRANDE ABOVE PECOS

STATION LOCATION RIO GRANDE RIVER AT

EL PASO, TEXAS

		.	TEAC	PHISOLVED				G(TOMA)											
HLL	ž	<u> </u>	(Degrees Carrierado)	CONTYCUMAN INSTANT	pět	B.O D ■4/1	= 4/1	1-HOUZ	24 HOUR	AMMONEA. HETHOGEN mg/l	GLOSSIE mg/l	ALFALINETY INC./1	HARDINGES mg/l	COLOR 	TURNEDITY (name under)	ELIATE mg/l	PHOSPIATES =1/1	TOTAL DESCUYED SOLECT mg/l	COLPORALS per 100 ml
10	6	58	20.9	8.5	8.3	2.9		2.7	5.9	_	80	222		<u> </u>	7	166		694	
10	13	50	21.0	8.5	B.3	2.7	10.2		5.7	_	240		350 434	_	700 240	160 219		1330	
	20	50	18.2	8.0	8.7	2.3	_	1.9	5.9	i -	177	224	420	-	350	208	ļ	1069	48000
10	27	58	18.6	B . 5	5.1	1.6	-	2.6	3.9	-	259		468	1 -	390	276	1	1449	7000
3	9	59	27.2	8.2	8.2	2.3	l -	1.3	3.9] _	72	179	230	1	1450	108		632	_
3	16	59	27.0	9.2	8.0	2 - 4] <i>-</i>	2.1	4.4	_	72		214		710	132		635	5000
3	23	59	19.2	8.3	8.0	1.1	_	2.4	4.5	_	82	163	222		430	180		543	4700
3	30	59	23.0	8.4	8.0	1.3	-	2.0	4.3	_	91	170	222		510	132		684	7300
4	6	59	20.0	8.5	7.9	1.4	-	2.3	4.4	-	94		232	_	380	180		689	1400
4	13	59	19.0	8.8	8.1	1 • 2	20.5	2.6	4.9	_			226	_	420	180	1	867	8000
4	20	59	20.1	7.9	8.1	1.5		1.5	4.1	_	176		228		145	230		1018	3700
4	27	59	20.3	7.6	7.9	1.7	-	1.6	4.4		147	170	224		210	154		846	6700
5	4	59	19.0	8.5	7.9	1.4	-	1.5	4.2	-	157	176			180	160		B 3 0	1100
5	11	59	20.6	7.7	8.0	1.6	18.3	1.9	5.0	-	158	179	258		_	15B		B75	2700
5	18	59	22.0	7.6	8.1	1.3	-	1.8	4.5	-	136	178		1		_	II.	769	77
5	25	59	23.0	7.8	8.1	1.9	-	1.9	4.7	-	136	176	234		165	150		834	5400
6	1	59	26.0	6.9	8.0		-	1.8	4.7		145	174	238	-	150	158		854	3000
6	В	59	28.0	7.0	7.8	1.1	-	1.9			136	174	244	-	165	160	d .	848	6300
6	15	59	27.0	6.2	7.9	1.2	-	1.9	4.7	'l -	103	163	254	. -	190	140	1	663	3100
6	22	59	32.0	6.2	8.1	1.3	-	2.1	5.1	-	128	165	266	-	210	175	4	767	4000
6	29	59	28.0		8.1	•7	-	1.8			108	161	244	.∖ -	195	180		670	1000
7	6	59	28.0		8.1	1 • 2	-	1.B			135	164	236	,	850	167	1	B73	2700
7	13	59	29.0	1	8.2	1.3	14.	1.3	3.9	' -	156	162	240	ı -	205	152		B 4-B	2200
7	20	59	28.0	7.9	B.3	1.5) -	1.5	4 . 2	!\ -	146	160	236	,) -	195	156	·	843	6300
7	27	59	29.0	6.4	8.1	1.2) -	2.1	5,6	, -	147	165	251	.) -	210	160	1	797	+250
В	3	59	30.0	6.1	8.2		-	1.7			149	162	253	3 -	175	158		801	13000
8	10	59	29.0	6.0	8.2	1.3	-	1.5	4.7	7) -	114	161	216	s) -	270			748	21000
8	17	59	29.0	6.0	8.2	1.2	1 .	2.0	5.2	? -	86	5 159	186) -	1500	150)]	655	7300
8	24	59	25.0	6.3	8.1	1.3		1.3	4 - 1	- ا	139	7 158	249) -	2500	259	?	898	11000
8	31	59	28.0	6.6	8.0	1 • 4		1.7	4.2			1 158	250	ı	1 100			772	13000
9	7	59	26.5	6.3	7.9	1.2	1 .	1.3		I .					· 750			656	1800
9	14	59	24.0		8.3		1 .	1.1			1 .	1			265			989	
9	21	59	25.0	7.8	8.0	1.4		1.6	4.	1 -	240	0 198	3 230	5 -	- 85	224	•	1491	5000
9	29	59	-	-	-	-		1 •	-	- -	.	- -	- -	-	-	-	-	_	12000
																			ı
								İ											

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

GEORGIA

MAJOR BASIN

SOUTHEAST

EUB BABIN

SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT

PORT WENTWORTH, GEORGIA

_	DATE F MAR			DESPONSED				CHORNE	DEMAND	AMMONEA-								TOTAL	
TE TO	à	3	(Mile (Daymer Canthy-subs)	DXYSEM mg/l	배	LOD mg/l	/I	1-HOLE mg/l	24-HOUE mg/l	NETECORN PG/I	mg/i	AUXALENTY mg/l	HARDNING mg/l	cores		■ (1)	PHOSPIATE By/I	DESCUPE ROUDE mg/l	Per 100 ad
10	6	50	.0	-	7.3	-	_	-	-	-	2	22	19	10		•		-	800
10 10	13 20 24 27	58 58	.0	1	6.7	-	-	-	_	_	59 3	28 21	25 24	7 5	54	6		122	2800 2700
10	24	54	29.3	8.1	7.2	• 7]	_		_	ءُ ا	20	17	30	52	7		49	
10	27	58	-	<u>-</u>	7.2	-	-	-	_	-	36	34	34	9	67	33		122	100
10 10 11 11 11	3 10 17 21	50 50 50 50 50 50 50 50 50 50 50 50 50 5	-	-	7.2	-	-	-	-	-	2450	44	8 34	5	56	350		5070	320
11	10		-	_	6.9	_		_	_	-	996	31	354	5	33	120		2070	6400 13 0 0
11	Ιżί	5	18.6	B • 2	7.0	1.1]	_	_	-	8	20	17	20	30	11.5		49	1,000
12	6	5 8	_	-	6.9	_	-	-	-	-	29	24	26 17	7	55	17		54	_
12 12 12	10 15 29	58	8.3	9.3	6,6	. 6	-	-	-	-	11	18	17	25	52	4		52	-
12	20	5 B	-	_	6.8	-]	_	_	-	3 421	28 28	17 153	11	55 200	7 18		764	-
î	1 5	59	9.7	_	6.0	_]	_	_	-	4	18	19	12	84			·	4100
1	12 19 23 26	59	-	-	-	-		_	-	-	-	-	-	-	-	_		-	100
1	19	59	_ =		7.0		-	-	-	-	9	29	24	10	5	12		8 🖷	2200
1	23	59 59	7.7	10.7	6.4 7.4	1.1]	-	_	_	9 11	16 41	18 32	30 -	67	4		53	74.45
Ž	2	5 🕏	-		7.0	_]	_	_	_	5	36	24	_	_	_		-	2400 1600
2	9	59 59		-	-	-	l ⊣	_	-	-	_	-	-	_	-	-		-	6200
2	16	33	-	-	6.8	-	1 -	-	-	-		17	16	-	-[-		- 1	770
3	2	59		-	5.6 6.8	_	1	-	-	-	-	26	24	- 35	-	_			3000
3	20	59 59	13.1	8.6	6.5	1.1]	_	-	_	6	76 14	32 17	65	27 52	7		60 61	210
3	16 20 23	59			6.9		47.7	-	-	-	ś	24	20	40	35	20		34	2600
3	30	59	-	-	6,5	-	-	-	-	-	5	19	16	-	-	-		-	590
4	13	59 59	-	-	-	-	_	-	-	-	-	-	-	-[-	-		-	840
- 7	17	59	18.3	7.7	6.9	1.1		_	-		7	18	18	70	118	5		62	200
4	20	59	18.3 26.7	6 6	6.8	1.1	- 4	-	-	-	,	18	17	30	128	2		57	2700
4	28	59	-]	-	-	-	-	-	-/	-	-	-	-	-		-		-	1100
5	4	59	-1	-	-	-	4	-	-	-	-	-	-	-	-	-		-	27 00
5	11	59 59	-	_	-	-	j	-	-	<u>-</u>	-	_	_	_	-	-		-	800
5	25	39	_	-	-	-	7	-		=	_	-	_	_	_	_		-	22 0 0 570
5		59	24.4	6.3	7.1	. 9	4	-1	-	-	7	19	18	60	67	6		63	1200
						_								_					

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

GEORGIA

MAJOR BASIN

SOUTHEAST

SUB BASIN

SAVANNAH RIVER

STATION LOCATION SAVANEAH RIVER AT

PORT WENTWORTH. GEORGIA

DA'			TIME	PERMOTARD				CHOMA					 _						
E 3	Т	_	Degrees 	COLLAGEN May /1	pH.	8.0 D. == _/1	=_ /1	1-MOUR mg/l	34-HOLE mg/l	AMMONIA- HITTIONEN mg/l	CHLONOM mg/l	AUKALIMITY mg/l	HARCHING mg/l	COLDS	TURNOTTY Jumps webs	SUATE Hy/I	HOSHATES HE/I	TOTAL DISSOLVED SOLIES TOTAL	COLIFORNIS per 100 mi
6 1 2 2 7 7 7 1 1 7 7 7 7 7 8 8 1 1 2 8 3 9 9 1 2 9 9 2 2	5296370730731184115	######################################	26.7	- - - - - - - - - - - - - - - - - - -	6.8		28.3	-		-		18	17	300	-	-		64	1808 640 1700 1400 4900 2109 9800 1408 2406 170 49000 1500 11000

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

SOUTH CAROLINA

MAJOR BABIN

50UTHEAST

SUB BASIN

SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT

NORTH AUGUSTA, SOUTH CAROLINA

	DATE		ТВИ	DESSOLVED				QLORN	DEMAND	AMMONEA-	CALORDIN	ALKALINITY	HAEDNESS	COLOR	TURNADITY	RAPATE	PHOSPHATES	TOTAL DOMEQUATED	COUPORMS
HOHUH	à	¥1,	Degrees Configurated	CONTRACT	Hing	Lo.D mag/l	C D D ■4/I	1.HOUT ===_/1	34-HOUR ===[/1	METROPHIN mg/l	=g/I	~/1	 /1		(acedo malia)	=9/1	 /I	BOLIDA BOLIDA BAS/I	p== 100 ==
10 10 11 11 11 11	20 27 3 10 17 24	58 58 58 58 58 58 58	20.0 18.9 17.7 17.7 18.8 17.7		7.0 7.0 7.1 - 7.1 7.1 7.1		12.2	- -	1111111	- - - -	4 4 5 5 5 5 5 5 5	16 16 15 15 15 15	12 14 14 12 12 12 12	- - - - -	10 7 7 7 5 5 7	-			140 220 80 120 50 45 180 140
12 12 12 12 1	8 15 22 29 5 12 19 26	58 58 59 59 59 59	13.3 10.0 10.0 11.1 8.8 8.8 7.7 10.0	111111111111111111111111111111111111111	7.1 7.1 7.1 7.0 7.1 7.1 7.1		5 B	-	11111	- - - - -	5 5 5 5 5 5 5 5	16 15 15 18 16 16	12 13 12 12 16 14 14	- - - - -	7 7 5 7 7 10 45	- - - - -			45 - - 25 25 90 320
2 2 2 3 3 3	2 9 16	59 59 59 59 59 59	10.0 11.1 12.2 11.1 11.1 11.1 12.2 13.3	-	7.1 7.1 7.1 7.1 6.9 6.9 6.9	- - - -	16.6	1 1 1 1 1 1	-	-	55555555	16 16 18 14 16 16	14 14 14 12 14 14	-	50 45 20 15 15 25	- - - -		111111	59 2800 35000 67000 390 23000 230
3 4 4 4 5 5	30 6 13 20 27 4 11	59 59 59	12.2 16.6 15.5 17.7 17.7 20.0 18.8	9.5 9.1 9.5	6.8 6.9 7.1 7.1 7.0 7.0	- - - - -	13.4				5 5 5 5 5 5 5	16 15 17 16 16 16 14	20 20 17 15 9 10 12	- - - - *	17 25 15 15 10 10	- - - -		-	1000 - - 250 +1 280 20
5 6	25 2 B	59 59 59 59	18.8 18.8 16.8 24.4	9.5 9.5 9.5 8.5	6.9 6.8 6.9	- - -	10.3	- - - -	-	-	5 5 5 5	15 16 15 15	13 15 14 13	- - -	150 30 20 40	- - -		- - -	13000 500 100 73

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

SOUTH CAROLINA

NIBAB ROLAK

SOUTHEAST

BUS BASIN

SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT

NORTH AUGUSTA, SOUTH CAROLINA

	ATI AND		TEM	DHIMOLVED				CHOISE	DEPLAND	AMMOPELA-	_							TOFAL	
-			(Dagram Carring with)	/I	p#1	8.0 b ==/i	-4 /I	1-HOUX =g/1	24-HOLTE mg/l	HITEOGRAM mg/l	CM-CMDIS mg/l	ALKALIMITY ===/1	HARDMEN mg/l	COLOR	TORMOTTY (code code)	RUATO mg/l	PHOSPILATES ==p/I	DESCRIPTION TO A STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	per 100 mi
7 6 8 8 8 9 9 9	13	99999999999999999999999999999999999999	23.3 24.4 24.4 25.5 25.4 26.5 27.4 22.5 25.5 25.5 27.5 27.5 27.5 27.5 27.5	8 · 8 8 · 6	6.8 6.7 7.0 6.7 7.1 6.9 6.9 6.4 6.8 6.9				-	-	555555555555555555555555555555555555555	15 14 15 15 15 15 15 16 16 16 17	15 13 12 11 12 12 12 12 14	-	10 15 10 15 10 25 25 25				60 100 800 110 400 55 70 18 7000 580 1300 100

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WASHINGTON

MAJOR BASIN

PACIFIC NORTHWEST

BUD BASIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION SNAKE RIVER AT

WAWAWAI. WASHINGTON

D4	ΔTL							CHLOSING	DENAND	AMMONIA								TOTAL	
<u> </u>	1	<u>}</u>	TRAFF Progress Configurate)	ma /)	p i l	LOB	±4/1	1-HOUR mg/l	24-HGU2 mg/l	HITECOUN mg/l	Mg/I	ALEALINITY	HARSHAMI mg/l	COLOR		EJUATE	PHOSPHATES Mg/I	DESCULVED SCALIDS mg/l	per 100 mL
10	6	58	17.1	10.8	8.6	1.7	7.0	.6	2.5	. 4	17	137	135	15	5	55		268	860
	3	58	14.7	9.8	5.6	. 5	8.9	. 8	2.9	. 2	13	115	113	25	11	44		222	1000
		58	13.3	11.1	8.5	1.2	6 - 4	. 5	2.3	• 3	15	124	122	20	4	49		236	550
		58	12.5	10.8	8.5	1.9	8.6	_	-	_	16	130	130	20	7	51		255	-
		58	10.8	11.5	8.5	1.5	5 - 6	. • 7	2.4	.8	17	136	135	15 30	6 19	52 26		260 1 5 2	400
	믜	58	8.8	11.1	8.2	1.4	11.1	1.1	5.1	. 5	B 13	76 103	76 108	20	19	39	1	206	2000 1700
	7	5 B	5.8	12.3	8.5 8.1	3.3 1.1	8.3	. 2 . 8	2.8	.3 .1	13 8	76	72	25	28	28		153	1800
		50	6.4	12.4	8.1	2.2	6.9	.5	2.4	. 2	10	92	90	13	6	33]	182	430
	8	58	3.8	12.4	7.9	1.3	11.3	. 9	5.4	•1	7	66	57	25	87	22		139	2200
12 1	- 1	5 6	4.0	12.2	7.9	1.3	9.1	. 9	3.7	.1	6	60	56	33	28	20		124	1100
12 2		58	5.0	12.3	B . 2	1.5	5.8	Á	ا 1 ق	.1	9	83	75	20	- 9	29		162	_
12 2		58	4.7	12.3	8.1	1.8	7.3	. 6	2.9	. 2	10	92	В7	23	12	33		186	_
1	5	59	1.0	13.3	B . 4	2.1	5.9	. 5	3.3	.0	13	110	105	15	9	40	1	221	3500
1 1		59	4.5	12.0	7.9	3.6	9.3	. 8	4.5	.0	10	86	82	25	64	30		173	1800
1 1		59	4.2	12.1		3 • O	8.2	. 5	4.0	• O	9	80	74	30	39	27	l	156	*20
1 2		59	3.7	12.6	7.7	1.1	13.6	- 9	4 . 5	• 1	5	57	60	45	85	18		118	3100
		59	3.8	12.7	B. 0	1.1	5.6	. 8	3.4	•1	9	84	85	25	15	28		167	4000
2 1		5 9 5 9	3.2	12.9	B.1 7.9	• 9	9.6	. 8	1.8		11	104	98 97	25 15	9 5	36		190	1500
2 2		59	4.1	11.7	7.9	2.3	8.5	. 9	2.9	.2	13 10	98 92	90	25		- 37		187 193	1700
	ź	59	5.6	12.3	7.6	1.8	23.6	. 9	6.5	• 3	5	72	61	65	165	22		163	1500 3300
		59	6.0	11.2	7.7	2.0	7.3	.3	2.0	.1	9	96	6	25	17	27		162	7200
3 1		59	6.0	11.5	7 B	2.6	5.a	. 4	2.3	.1	11	вo	91	15	7	31		177	1100
3 2		59	6.2	11.6	B.O	1.1	8.6		2.7	. i	9	76	59	15	7	31		172	10000
3 3	0	59	В.О	11.4	7.8	2.5	5.6	- 4	3.3	.0	В	14	8.5	25	13	30		170	6000
		59	9.2	11.1	7.4	3.5	10.9	. 5	3.9	.1	5	52	53	25	14	19		118	1500
4 1		59	9.8	10.9	7.1	. 7	8.3	. 9	3,6	• Z	4	42	57	15	5	19		119	700
4 2		59	10.0	11.1	7.2	1.7	3 • 6	. B	3 . 4	• 0	2	40	4.5	15	20	16		_	9300
4 2		39	9.5	11.0	7.5	1.0	8.9	a 6	3.8	•1	2	36	34	15	В	14]	85	2800
5 1		59 59	9.0	10.8	7-4	1.0 1.5	13.2	- 7	3.8	•0	1	38	40	25	15			68	5100
5 16		59	7.3	10.9	7.1 7.3	1.7	10.Z	.7 .9	3,9	•1	I a	16 14	23	15	. 6	15		76	900
5 2		59	13.0	9.9	7.2	.3	7.8	• 9 • 9	3.6	11	3 1	42	23 32	15 15	15	9 11		63	2900
		59	13.0	10.3	7.3	1.6	9.6	1.2	4.3	1	3	38	36	15	4 3	11		81	530
6		5 9	12.0	10.7	7.2	2.0	8.6	1.1	5,2	.1	3	34	27	15	21	1 Z B		83 88	175 990
6 1		5 9	14.0	11.6	7.1	1.0	11.1	1.5	6.1	3	í	30	23	15	12	7		57	1000
6 2		59	16.7	9.2	7.2	1.0	9.8	.7	3.6	ا ق	ī	29	21	15	12	7		66	2600
6 29	9	59	15.8	B.9	7.6	1.1	5 . 2	• B	3.1	. 2	3	46	49	25	4				2400
- 2	<u>'</u>	"	13.6	5.7	/ • · ·	1.1			3.1	• 2	3	46	49	25	4	1 4		82	2

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

WASHINGTON

MAJOR BABIN

PACIFIC NORTHWEST

SUB BASIN

MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION SMAKE RIVER AT

WAWAWAI, WASHINGTON

	DATI	ŀ	\ TIMP	DMMOLVED				CHLORES		4 May - 2 M - 1									
HE	ķ	47EV	(Degrees Candigrada)	CXTORN mg/l	PåFI	±.0.b. ==(/)	<u></u> /1	1-HOUR ====/1	34-House mg/1	AMMONIA- HITIDOBH Mg/I	CHLORING mg/l	ALVALENTY #E/I		COLOR 	TURNOSTIY (reads reading	SELFATIS mg/l	PHOSPHATES mg/l	TOTAL DEBOLYTED HOLIDS Hay/I	COLFORMS per 100 ml.
7 7 8 8 8	13 20	599599599599599	17.1 20.5 22.7 22.8 22.2 21.5 22.0 20.0 19.0	8.7 8.9 9.0 9.1 10.0 6.5 9.1 8.1 9.4	7.8.10.4.4.3.4.3.6.5.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	3.0 1.2 1.0 6 .8 1.0	6.45.9 7.16.8 5.7.66.8 7.66.8 8.15.8 10.5	.9 1.0 .7 .9 1.3 .8 .9 .9	2.7 2.1 2.8 3.6 2.9	•2	11 16 11 6 5	54 60 56 76 87 76 98 106 92 110	99 113 101 124 104	15 15 15 15 15 25 25 25 25 15	2 1 2 4 1 1 1 1 0 4	32 42 43 465 230		90 120 116 139 145 176 166 164 166 171 479 344	2300 1500 2100 860 690 340 690 900 460 1800 4600

STATE

OHAD1

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BASIN

PACIFIC MORTHWEST

SUB BASIN

CENTRAL SMAKE RIVER

STATION LOCATION SHAKE RIVER AT

WEISER, IBAHO

	DATE							CLOSS	DEMAND	ANMONIA-					 		PHOSPHATES	TOTAL	
шы	à	3	Title Depos Cardynais)	DESIOLVED DXTEEN SEL/1	pd+1	■ _/1	C.O.D	1-HOUR ==g/1	34-HOUR	NETTED MEN	==/1	ALKALIMITY	HARDNESS mg/l	coros		mg/i	==/I	POLIDE POLIDE PRE/I	PER 100 MI
10	1	58	18.0	10.0	8.3	3.0		1.5	3.0	,6	30	184	196	5	32	_		-	-
10	8	58	16.0	7.6	7.1	1.6	5.0	1.0	3.0	. 8	3	152	100		29	-		-	4900
10	15	58	15.0	8.3	7.6	3.1	8.0	1.1	3.0	-4	3	1 .	212	3	35	_		-	4300
10	22	50	_	9.3	8.0	1.5	13.1	. 9	4.0	-6	3		204	3	52 35			_	230 =230
10	29	24	14.5	9.6	7.9	2.8	8 • 1	1.9		. 8	4	200	20 6 212	3	22	_		_	1500
11	3	58 50	12.5	8.9	7.9 7.5	1.9	3.7	1.1	2.5	-4	1 4		216) 5	20	_		_	+230
11 11	12 19	20 58	7.5	9.8	8.0		6 • 6 9 • 4	1.2	3.1		,	216	228	5	35	_		_	+230
11	26	36	5 a O	10.4	9.0	_	2.1	1.1	2.5	,6	ر 3		216		38	_		_	7200
12	3	58	6.1	10.8	7.0	_	4.2	2.1		.4	ءَ ا	152	2 2 8	5	28	-		_	18000
12	10	58	6.5	10.7	7.4	_	-	2.0	4.1	. 8	26	194	215	5	27	90		384	18000
12	17	5 ■	5.0	10.7	7.9	3.1	16.5	1.1	3.9	.6	16	190	220) 3	28	76		354	-
12	24	56	6.5	10.4	7.7	3.7	17.2	2.0	4.0	. B	25	192	206	3	33	76		448	-
12	31	58	6.0	9.8	7.2	-	1 -	2.0	4.0	.6	24	186	229] 3	36	77		350	_
1	7	59	3.0	9.9	8.1	1.2	17.5	2.0	_	•6	28	196	191	5	30 65	80		400	+230
1	14	55	7.1	11.2	7.7	-	1 1	2.5	4.0	.6	30	181	182	5	34	68		350 -	#210
1	21	59	4.0	10.3	7.9 7.8		21.6	2.1	4.0 5.0	• 6	14 14	190 114	136	5	140	\ <u> </u>		_ '	1000 330
1 2	28	59 59	2.5	9.4 10.2	7.6	2 · 6 3 · 2	12.9	4.0 2.8	5.0	.4	24	192	192	5	46	_		_	+250
2	11	37	5.1	10.3	7.3	3.1	16.4	2.0	4.1	.6	26	190	192	5	50	_		_	+230
2	16	59	5.5	9.4	6.0	2.3	7.2	3.0	4.0	.6	21	150	168		30	_		_	+230
2	23	59	7.0	10.2	8.3	2.6	20.a	2.0	_	.7	17	150	90	5	6 B	-			_
3	2	59	1,5	9.9	8.0	3.0	6.4	1.0	3.1	.7	35	140	188	5	30	-	1	- 1	-
3	9	57	9.2	9.9	7.9	-	5.1	. 4	.0	. 8	24	160	204		65	-			-
3	16	59	9,0	10.0	8.0	2 . 2	22.5	. 1	-	. 8	17	104	100	5	65	-	Į.	-	-
3	23	59	7.5	9.3	5.1	2 • 1]	• 2	1.9	. 6	27	84	BQ	5	32	-		-	*300
3	30	59	1.5	9.4	8.1	2.2	4.3	4	1.6	. 8	16	42	56	5	47	-		-	470
4	6	59	11.0	8.9	7.2	2+4	7.7	1 • 1	2.8	• 6	16	54	68	5	45	-		-	230
4	13 20	59 59	11.0	9.5	7.5	2.0 2.0	12.5	- 3	2.5	• 7 • 7	18 18	138 152	136 160	5	48 42	<u> </u>			1300 660
4	27	59	11.5	7.9	8.4 B.1	1.3]	1.2	1.3	.7	16	116	120	5	68	_		_	*2 3 0
5	4	59	12.0	8.6	8.0	1.7	7.4	. 3	1.0	. 5	13	120	118	5	62	_		_	2600
أة	18	59	13.0	5.4	8.1	1.3	12.1	. 6	2.0	.7	14	108	106	5	64	_		_	230
5	25	59	16.5	8.4	8.0	**-	3 -	. 2	1.6	-6	15	74	120	5	62	-		_	460
6	1	59	17.5	8.2	8.0	2 • 2	2.2	.1	2.3	.7	18	120	118	5	57	_		_	+250
6	8	59	17.8	7.4	5.1	. 9	2 • 4	. 3	2.1	. 6	16	117	116	5	70	-		-	1300
6	15	59	18.5	8.6	7.₽	2.6	5.3	. 2	1.4	. 7	11	8.8	90	5	70	_		-	1800
6	22	59	19.0	8.4	7.9	2.2	4.2	- 3	2 - 4	.7	14	56	89	5	62	_		-	2000
							_												

IDAHO

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

MAJOR BABIN

STATE

PACIFIC NORTHWEST

HIZAE GLI

CENTRAL SMAKE RIVER

STATION LOCATION SNAKE RIVER AT

WEISER, IDAHO

	DATI		THE	DESIGNATIO				GLOSS	DEMAND										
НШном) Y	YEAR	(Degree	0XY===1 ==g/I	på4	=.c.⊅ ==_/1	=4 /1	1-Hour mg/1	24-HOUR mg/l	ANMONIA- HITTOGRA mg/l	CALDMON mg/l	ALEADETY mg/l	HARRIES =9/1	COLDE Lank miles		ROUATE Na/I	PHOSPHATES	FOTAL EMBOLVED ROLLES Mag/I	COLFORNS per 108 ml
	29 6 13 20 27 3 17 24 31	59 59 59 59 59 59 59	19.5 20.5 24.0 28.5 25.0 23.5 21.5 20.0 18.0	7.9 8.1 6.6 7.1 -	7.6 7.8 7.9 7.9 7.8 7.8 7.8 7.6 7.7	1.4	4.3 6.2 4.3 5.6 3.5 4.6	.4	2.4 - - 2.6 2.8 3.0 2.5 - 2.5	.6 .7 .8 .8 .8 .7 -7	15 18 16	54 50 58 56 80 140 - 138 172	176 180	5 5 5 5 5 5 5 5 5 5	74 60 60 60 54 59 - 70	-			1306 580 *13" 600

CHEMICAL, PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

TENNESSEE

MAJOR BASIN

TENNESSEE RIVER

SUB BASIN

TENNESSEE MAIN STEM & MINOR TRIB.

STATION LOCATION TENNESSEE RIVER M465.3 TVA AT

CHATTANOOGA, TENNESSEE

_	BATE	- 1		planot/MD				CHARM	DEMAND	AMMONIA							PHOSPHATIS	TOTAL	
Н	DAY	3	This (Begrent Canalysede)	COCTEMN .	ائم	#.O.D ==/1	~ €/1	1-HOUR mg/l	\$4-HCE/9 mg/l	HETELOGEN ang/I	==/I	MEALINITY Mg/I	HARDHAMAS mg/l	coros	(confo male)	MALPATES Hay/I	= _/1	IOLIDA IOLIDA INE/I	per 100 mL
10	1	58	7.1	6.7	7.5	1.6	16.4	1.5	3.9	. 8	13	59	76	2	20	15		116	
10	8	58	19.6	7.0	7.5	1 • 2	7.1	1.6	3 . 2	.0	16	58	78	2	20	12		128	*3
10	15	55	19.0	7.7	7.5	1.4	6.7	1.6	3.1	۰۰	15	54	70 70	2 2	18 20	13 15		116 119	*3 *3
10	22	25	19.0	7.6	7.5	1.3	12.5	1.5	3.8	.0	16 15	53 54	72	2	18	15		126	12
10 11	29 5	5 8 5 8	17.4 15.7	8.0	7.5	1.5 1.4	/ / 7	1.4 1.4	3.0	.9	14	55	72	3	18	16		112	*3
11	12	5	14.5	8 B	7.5	. 9	6.4	1.3	3.5	ó	13	58	72	2	18	17		134	11
11	19	50	15.7	8.6	7.5	1.1	7.9	1.5	3.8	.1	16	59	82	2	10	17		131	5
11	26	58	14.5	8.7	7.5	7	7.9	1.5	4.0	1	17	55	74	3	18	17		128	*12
12	3	50	11.2	9.4	7.5	1.1	8.4	1.3	3.0	0	16	52	78	2	15	15		130	10
12	10	58	8.4	10.2	7.4	. 8	9.5	1.3	3.2	.0	15	56	80	2	13	13		132	*4
12	17	56	6.7	10.7	7.4	1.2	9.2	1.9	3.9	•0	16	55	74	6	В	16		126	-
12	23	56	7.3	10.8	7.4	1.0	9,8	1.5	3.9	.0	15	56	68	5	10 10	16 18		132	_
12	30	5 8	6.7	11.1	7.4	1.2	10.4	2.0	4.0	• 0	14 17	55 62	7 6 76	6	13	19		112	_
1	7 14	59 59	5.6	11.5	7.5	1.0 1.2	7.4	1.4 2.3	3.6 6.4	.0 .2	24	5B	86	7	10	18		170	50
1	21	59	5.6	11.4	7.4	2.5	12.1	3.0	5.9	.0	30	60	94	10	13	20	}	159	*4
i	28	59	5.6	11.3	7.3	1.5	14.7	3.4	6.2	.0	14	55	72	22	43	24		141	60
2	4	39	6.2	10.7	7.2	1.2	9 d	2.8	5.6	.0	12	51	72	8	33	22		120	+5
2	11	59	6.7	10.4	7.3	. 8	8.5	2.6	7.9	. 3	12	47	66	5	32	16		117	17
2	18	59	B,4	10.3	7.3	1.7	8.7	2.8	5.3	• 5	20	-	72	10	40	23		127	39
	25	59	7.3	10.2	7.3	1.1	8.7	2.6	5.2	. 2	9	47	60	8	28	23		113	94
3	. 4	59	7.8	10.3	7.3	1.1	6.7	2.1	4.7	. 9	Z	42	58	11	37	20		104	10
3	11 18	59 59	8.4 8.9	10.2	7.3	. B	6.4	1.9	4.7	.0 .3	4 2	42	56 62	10 10	28 46	16 19		100 101	220
3	25	59	10.1	10 • 2 9 • B	7.3	1.4	6 • 6 4 • B	1.6	4.2	.0	3	30	66	18	22	15		99	44 16
Ã	$\frac{1}{1}$	59	11.2	9.2	7.3	2.3	7.6	2.2	4.4	. 2	2	4.0	5	و	71	20		99	82
4	8	59	13.4	9.0	7.3	1.4	5 B	1.7	4.0	• Z	4	45	58	5	68	22		102	10
4	15	59	13.4	9.0	7.4	1.4	6.1	1.8	4 1		اؤ	49	64	10	37	18		108	20
4	22	59	15.7	7.8	7.3	1.5	10.0	2.2	7.2	• 2	3	46	58	18	49	17		70	20
	29	59	16.2	8.1	7.3	2 • 6	4.6	1.9	4.1	4	4	42	56	8	28	22	1	В6	#3
5	6	59	17.9	7 - 4	7.3	1.7	6.3	1.3	3.6	• 1	7	45	62	8	27	18		101	-
	13	59	19.6	6.4	7.3	1.3	3.2	1.6	3.5	•5	9	50	70	В	18	18		112	*1
	20	59	20.2	6.7	7.3	2.5	7.9	1 • B	3.9	• 0	9	47	66	6	26	10		101	5
5	27	59 59	20.7	6.D	7.3	2.1 2.5	7.9	1.7	3.6	• 6	8 7	49 54	60	8 10	50	20	}	90	*2
- 1	10	59	22.4	5.4	7.3	4.5	5.6 5.2	1.4	3 . Z	.3	'	52	62 68	101	32 10	18 18		92	2 *4
6	17	59	23.5	6.6	7.4	1.0	5.6	1.6	3 5	.2	اءُ	51	64	9	15	18		93 104	¥2
6	24	59	24.1	5.4	7.4	2-1	6.8	1.4	3.5	.4	9	59	78	اؤ	27	20		108	2
						لــــــا		انت			1		ــــــــــــــــــــــــــــــــــــــ						

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

TENNESSEE

HIBAB ROLAM

TENNESSEE RIVER

SUR BASIN

TENNESSEE MAIN STEM & MINOR TRIB.

STATION LOCATION TERNESSEE RIVER M465.3 TVA AT

CHATTANOOGA, TENNESSEE

	ATI Wit	.	Taraba	DEMOLVED			ļ	OLDER	DELAND	AMMONIA-									
-	ž	3	(Dagram Candyroda)		<u>r</u>	LO b. ==/1	<u>==</u> /1	1-HOUR ===/1	24-HOUR mg/l	HETELOGISH mg/l	Hall	ALEALMETY mg/l	RAIDNES mg/l	CD(08	TURNOTTY (and make)	SUATE mg/l	PHOSPHATES =s/1	TOTAL DISSOLVED BOLING HIE/I	COUPONS per 100 mL
7 7 7 7 7 8 8 8 8 9 9	1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	5555555555555555		5.3 5.2 4.9 5.0 4.4 5.7 5.1 4.0 4.0 6.6	7.4 7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3	1.4 2.1 4.2 .9 2.0 2.4 2.6	6.63 5.7 8.4 6.0 7.5 5.9 7.7 7.3 5.9	1.2 1.0 1.2 1.5 1.4	3.0 2.8 2.9 3.1 3.0	2	11	52 54 52 51 54 49 48 54 52 50 48	70 70 60	5 5 5 4 4 4 4	13 17 13 15 15 15 15	21 24 21 16 18 15 20 19 15 18 20 18 14		98 88 81 86 81 122 118 121 109 117 122 92 127 90	*4 *3 *3 *5 *5 *3 1500 1500

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MONTANA

MIBAB FOLAM

MISSOURI RIVER

SUB BASIN

YELLOWSTOME RIVER

STATION LOCATION YELLOWSTONE RIVER M30 NEAR

SIDNEY. MONTANA

	DATE							CHORNE	DEMAND	AMMONEA-								TOTAL	
у намения	Å	33	TEMP (Dogram Contigonals)	DISTOLVED DESCRIPTION	p#H	8 O p ■	===/I	1-HOUL	24-HOUE	MILITAGE N	= _/I	ALKALINITY mg/l	HARDHAM mg/l	corge	TURNIDITY	AU ATEI ■ (1	PHOSPHATES mg/l	DEMOLVED ROLLDS Mg/l	Per 100 ml.
11	3	58	5.9	_	5,5		_	_	-		16	188	308	-	_	272		_	-
11	10	56	4.6	-	8.5	-	-	-	-	-	16	190	310	_	-	225	[-	-
	17	58	2.7	-	8.4	-	1 -	-	-	-	16	152	302	-	-	228		-	-
11	24	58	• 3	-	8,3	_	-	-		-	16	154	304	-		210 253		-	_
12	1	58	• 2	-	0.2	-	1 1	_	-	-	18	204	330	_	_	253		_	-
12		30	•0	-	5.1	_	1 7	-	-	-	20	212 224	334 358	_	_	253		_	_
12 12	15 22	58 58	•0	-	8,1 8.0	_	1 7	-		_	20 21	212	344	_	_	253		_	_
12	29	5	• 0	_ <u>-</u>	B. 0	_	ı]	-	1]	_	21	196	330	-	_	236		_	_
1	5	59	.0	_	8.1	_]	_	_	_	20	210	345	_	_	236		_	_
i	12	59	.0	_]	5.0	_		_	_	_	21	236	374	_	_	283		_	_
î	19	59	.0	_	B. 1	_	4	_	_	_	20	225	384	_	_	245		748	_
ī	26	59	.0	_	8,0	_	4	1.5	4.3	_	18	188	312	-	_	216		440	_
Ž	2	59	.0	_	8.1	-	-	2.6	4,7	_	20	200	336	-	-	228		644	_
2 (9	59	.0	_[7.9	_	-	- 1	1.4	-	18	192	316	-	-1	228		630	-
2	16	59	2.1	_	8.0	-	-	2.0	3.8	-	18	200	334	_	25	253	1	666	-
2	23	59	1.5	-	8.0	-	1 -	2.7	4.7	-	21	210	348	_	25	184		660	-
3	9	59	. 5	- 1	8.0	-	-	-	-	-	10	110	176	-	350	114		364	_
3	16	59	.5	-	8.1	-	-	-	-	-	11	112	160	-	2100	104		393	_
3	23	39	• 3	-	8,0	-	_	_	-	-	17	98	146	_	6200	109		331	_
3	30	59	8.0	-	8.2	-	-	-	-	-1	17	154	266	-	2200	184		525	_
4	6	59	в. 9		8.3	-		-	-	-	13	102	338	-	590	219		689	_
4	13	39	8.9	-	B . 4	-	12.1	-	-	-	27	186	320	-	350	236		670	_
	20	59	7.0	-	B.3	-	۱ ٦	-	-	-	20	174	302	-	360	263		696	-
	27	39	9.8	-	B . 4	-	1	-	-	-	20	176	318	-	370	250	i j	698	-
5	4	59	12.0	-	8.2	-	1	-	-1	-	15	170	270	-	1500	263		597	-
5	11	59 59	12.8	-	8.2	-	31.7	-	-	-	13	150	246	-	1300	234		470	-
	18 25	59	17.1	-	8,4	-		-	-	-	12	140	212	-	800	202		434	_
6	1	59	16.4 17.4	-	8 • 1 8 • 3	- 1	1	-1	-1	-	10	112	182	- i	870	109		336	-
6	è	59	22.1	-	8.2	-]	_	-		11 11	130	190	_[565	146		362	_
- 1	15	59	21.4	_]	B. 0	_	24.4	_	<u>-</u> 1	_[11	120 74	182 94		1480 880	109		364	_
	23	59	20.0	-1	8.1	_ [47.7		-1	_[9	70	82	_	1075	27		182 146	_
		59	16.8	_}	8.1	_		_	-	<u>-</u>	6	66	96	_}	2570	44		198	_
7		59	20.1	_	8.1	_		_	-	_	10	82	152	_	9600	4-		154	_
		59	23.2	-1	B. 0	_	12.9	_	-1	-1	7	84	114	_	600	70		218	_
	1	59	25.1	_	8.5	_	1		_	_	6	88	116	_	168	68		246	_
	27		26.8	_	8.5	_	_	_]	_	_	7	106	140	_	150	109		318	_
l				1					l	ĺ	1	1.5	140	_	1,0	10,7		1016	_
		_4-																	

CHEMICAL PHYSICAL AND BACTERIOLOGICAL ANALYSES

STATE

MONTANA

MAJOR BASIN

MISSOURI RIVER

NIBAR KUR

YELLOWSTONE RIVER

STATION LOCATION YELLOWSTONE RIVER M30 NEAR

SIDNEY, MONTANA

	DATE		TIME	DHEOLVED				CHLORNE	DEMAND	AMMONIA-									
1	à	-4	Degrees Carifornia	COLLACE	på4	1.0.0 ==/1	= -/1	1-HOUR ==_/1	34-Hous ==/1	HITSOMN mg/l	mg/1	ALKALBETY mg/l		COLOR	TURNICATIY (made units)	EJUATE mg/l	PHOSPHATES mg/l	TOTAL DEBIOLYED POLIDE =4/1	per 100 ml
8 8 8	3 10 17 24 31 8 14 21	59 59 59 59 59 59 59	24.8 21.9 22.4 22.9 21.2 22.0 18.4 13.7 9.6	=	8.4 8.5 8.6 8.6 8.6 8.3	-	15.0	2.3 2.3 2.3	5.9 5.7 5.9 5.9 5.5	-	11	130 142 146 148 154 164	196 202 210 224 236 264 268	- - - -	100 55 55 45 40 50 100	114 153 156 209 200 203 208 131 175		324 420 440 524 506 536 616 630 694	



TRACE ELEMENTS

1958 - 1959

•	DA	TE						CONC	ENTE	RATIO	N -		MILLI	GRAN	45	PER	L	ITER					
STATION	FROM	TD		_	We HA	OR FLA	WE .					AHALY	5/5 E	Y 5 PL	CTRO	PHOTO	SRAPI	HIG ME	THOD				
	FROM	10	В	F	K	Να	Se	Cd	Во	Ве	РЬ	Cr	Sn	Sb	Mm	Fe	Ni	Βı	Mo	٧		Zn	C٥
erinus niva Li Pudleton Terry, isk	¥-6- 55	5 -65-2 5	0.07	0 2 73	4.3	*	1.m·	0.004	מבים	0 0000	0, m.	0,000,0	0,005	0 03"	0 m-	פצים	0 005*	0.01	o*002,	0.007	0.006	ኒ.o•	0,00
at Penns Only, Oklahem	건경	11-10-5 3-3-33	0,05	0.70	1.1	5	0°07. a 01.	0-05 .	0 3 0.07	0.0003* 0.0003*	0,03°	700 0 700,0	0 m •	0 01- 0-01-	0 07F	9,02 0,05	0.01	0.07	0.00 ·	. E.	8, CI	=	0.00
at Conlidge, Ermans	163	10-29-58 5-25-29	0 1% 0 30	6.0	7 D	Ğ	0 07.	9-07 • 9-01	0 t 0.07	0.001	0.10 0.10	0 OE *	0.05 *	0,8 *	1 0F	0.07 0.07	0.05	01.	0.05	0.05	0.007 700.0	Ξ	0.0
dien, friend	5-1-5 3-30-23	10-20-5 3-67-73	0 18	0 ta 0 ta	ti.	10s 11s	0 CC.	0.04:	01	0 0003°	0.03*	**************************************	он. он.	0 0€* 0 0€*	0 07°	6.5 6.3	943 44	0.03° 0.03°	n.m. 0 03	0.40 ·	4.03 4.03	-	0.0
A Period Dan Arisma-California	5-1-55 3-30-53	10-20-75 5-11-73	0.11	0 ==	};	7	0 01.	0.05	0.07.	0, 000)*	0.03° 70.0	0 006°	001.	0.06	0.07	0.02°	°Œ.	0.02	0 62	0.01	0.05 0.4	-	0.40 0 G
a) Barrer Dim, hriman-Sernia	3-30-33	10-80-91 5-11-77	0 06	2.7	11	100 100	0.01.	0 OE *	0.4	0 000 47	0.0	0* <u>mi.</u> 0*00i.	од. П	0 07° 0 07°	0.05°	0 m* 0 1	o'et o'et	0.0 \	0.07 0.01	0.01 •	0,00°	-	0.0
per les, felores	6-55	11-17-58 5-16-59	0.11	0.15	H	120	001"	0.07	0.7	0,000	0.05°	4	0.03	0.1	0.0 ** 0.0 **	0.03	0 62	0.07	0,02° 0,03°	0.05	0.002. CD02.	2	• 0
OCHOTA RIVER Manor Clatebookie, Oregen	5-2-56 3-30-56	11-1-2	0,14	0 16 0 16	1.0	11.1 5.8	* *	0.007	0 04 0,006	0 00005	0-04 0 005	0 006 0 00m	0 000°	оти. Оти.	0.00 1 0 0.00 1 0	0,0g 0 03	0,005	0.005*	0,00e 0,003	9,000	0 009	0.5°	90
at Removille Dan, Marking ton-Grages	9-1-58 3-30-29	10-60-96 5-18-55	0.07	0,83	1,1	10 I	0 07.	0 00%	0.04 0.000	0 00005	0.006*	0,009 0,003	0.007	0 11.	0.007	0 03	0.007	0.005*	0.003	0.005	0.06		0.0
at Passe Nakington	9-1-51 3-30-25	10-17-54 5-25-29	0 11	0 1%	1.5	3.0	0 00.	0.002	0 0% 0 03	0,0000	0.005	0 0A 0 009	0.000	0.01	0.00	0 01L	0.00e* 0.00*	9.005	0.008	07005. 07005.	0.009	ሲያ ሲያ	0,0 0,0
at Youtheas, Markington	127	11-17-51 6-1-59	0 03	811	1.0	1,0	0 11.	9,000 1	20.0 0 04	**************************************	0.006	0 000 0 000 0 000	0,000F	0.07=	0,00 7 0,00 7	0 0£	0*TOOL. 0*TOOL.	0.005°	0.00A	0.002	0.00	o č	مه ا
printes sive st Prilodelphia, Pa.	9-1-5# 3-30-55	10-20-94 9-14-55	0 05	0 19 0 11	£.2 1 1	2,5	. u.	0 005	0 05 0,000	0,00000		0 00E	0 007	0,0F 0 0F	0.006* 0.006*	D CORR	0.EU 0.E0	l " "					
at Burion Pa	4-6- 55	A-27-55	-	-	0 6	• 0	-	0 005	0 007	0 000008*	0.00	0 0002*	0.00 5	0 047	*کھیے۔	0006	0.007*	0.00	ı ~	٠ -	-		""
Mar Link Labo Sein at Buffalo,S Y	9-15-98 3-30-59	11-3-58 5-1 8-5 3	0 04 0 04	0 14 0 15	1 1	18 kg		0,006*	0.01 0.01	0,0001 °			0.005	0 OF 0.00	0,000F 7000,0	0.006 0 07	0 DOM**	0.00 F	0 004° 0 007	0 003*	0 006 1,008	1.0° 0.0°	0.00
Introit River at Detroit Highings	9-1-58 8-6-59	10-20-51 5-15-59	0 03 0 00	0 13	0 6	14.9 3.9	0 00.	0 00%	0 04	0 00007			0 007	0.07.	0 00 5 0 00 5	0.07	0 007	0.001	0 (00)° 0,00)	F002.	. ET	0 F	0 0
laks Superior at Buluks Hissansta	9-1-5 1-6-59	10-20-54 5-75-55	30 C	0 04	0 2	1.6	0 m.	0 000	0 00	0 000003		0.0006		0 006*	0 000F	0 07	0.000	0.00)	0.001.	0.001	1_05 0 DE	0.3	0 00
Lebu Michigan at Sary Indiana	10-6-5E 1-13-55		0 104	0 05	1 6	2 %		0.005*	0 05				0 003*	0 000	0 006*	0 03	0.003	0 000	0 003	0.005	0_006 0_006	0.F	0 0
nunca arya. Nolow Praghinepale II I	9-1-54 3-30-59		0 05	0 15	1 0 6	11 4		0 003°		0 20007		0 007	D DOM:		8 009m 0 009m	0 05	0 000F	0 005	0,000	0,00F 0 00F	0_006	5 FF	0 0

^{*} ACTUAL VALUE IS LESS THAN THE AMOUNT SHOWN REPORTED RESULT INDICATES LIMIT OF SENSITIVITY AT WHICH TEST WAS PERFORMED. SEE PAGE B OF TEXT FOR EXPLANATION.

TRACE ELEMENTS

1958-1959

	D A	ATE						CONC	ENI	HATIC	N -			IGRA		PER		ITER					
STATION		Г	ANA	(L75/5	Visto	OH FL	AME	L				ANAL	7515	87 3P	SCTRO	PHOTO							
	FROM	OT	В	F	К	Na	5.	Cq	Ва	В●	РЪ	Gr	Sn	Sb	Mn	Fe	NI	ВІ	Mo	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Си	Zn	Co
parision nive et Iouli, Benederrits	10-13-98 3-30-29	18-15-59 5-18-59	0,07	0.09 0.09	1 1	۲,	0.CL*	0 003° 9,000°	0-005	0,000044	0.00 00 0.00 00	0-006 0-006	0.008*	0,00 5	0,1 0.09	0.64	0.00% 0.00	0,000	0.000	0,00 2 °	0.1	3. ₽	0.0
the Driese, La.	9-1-91 3-30-99	10-41-54 5-46-55	0.07	0.89 0.14	3-5 E-3	17 6 15.0	0.01*	0.007*	0.1 0.09	0 2000.	0.01 *	0,000*	0 009*	0,042 *	0.003*	0.05	0 00 00 *	0.01	0.005	0 005° 0.005°	0 009 0,0007	1:	0.0
si Islia, Locialma (farmuly si Flatsiony, Maniscippi)	뱮	11-3-9 3-5-5	0 07 0-09	0.17 0.17	냺	15 4 15-0	0-01* 0-01*	0.007	0-1 0 002	0.4000X	0-01 0-01	0.000*	0,005	0 0m * 0.04 *	0.005	0.36	0,005	0-07 ;	0,005	0.007	0,0e 0 009	1:	0.0 0.0
of Sort Houghto, Ast,	9-1-58 1-6-39	10- 81-7 5-7-7	0.05	0.9 0.8	30	16.8° 11.0	0.01.	1,000° 1000°	0.03	0.0003.	0 11 -	0.003	0.005* 0.005*	0.03 *	000.	0.00	0,005*	0.07;	0.005	0.005	0 000g	1:	0,0
ut Sayo Streethorn, No	过	10-10-74 5-77-23	0.1k 0.06	0, kg 0 y0	14.0 14.1		0.01*	0,000° 1000,0	0.05	: :::::::::::::::::::::::::::::::::::::	0 07 +	0.003	0,005° 0,005°	0.03	0.00	0.09	0.005	0.07 •	0.009	0.005	0 CC. 0 CME	1:	0,0
at Bart St. Louis, III.	11-29	10-10-7	0.10	: <u>P</u>	끊	16 4 10.0	• u.	0.000	0.00f 0.05	0.0001 0.0001	007.	0.003*	0.005	0.07	0.40.	0-04 0-04	0.005*	0.01 *	0 309 0 000	0.005	0.00	1:	0.0
at Bulington, Ion.	22	10-11-50 - 13-3 3	0.05	0. 5 0	H	1,0	0,00	0.01	0 D46 0 D48	0 0000£ *		0.00**	0.00#	0.04	0.08 *	0-04	0.000	0.08 *	0 000	0.004	0,04	=	0.0
at Bilings, Iron	3-30-39	18-03-58 6-1-33	0.0	0 II	1 d E.5	, ;	0.AL*	0.006°	0.04	0.0001.*	0 az .	0,00 2°	0.00	0.0E	0,000	0.0	0.00	0.01	0 00#*	0.00%	0,0€ 0 DE	1:	0 0
above Rad Ving, Miss.	江	10-40-51 5-7-75	0-07	0 10	1.6 2.3	14.9 7 7	0 07.	0.005*	0,06 0 (M	0.000	0.61	0 005	0.00)+	0.00	0.005	0.06	0.00**	0 th .	0,00	0.00	0°T 0°E	1:	0 0
nganan myan ga da Lamis, Misasori	117	10-20-54 5-25-29	0.09 0.07	0.2	밚	#0+0 0+0#	0.UL*	007	0.# 0 1	0.000m *	0 0M *	0 00 1/*	0.03.	D. DA *	0 DE *	0 10 0 00.	0.00.4	0_0# *	0 m. *	0.01	0,0001 0 0001	<u> </u>	0 0
at Emma Oliv Elaseri	3-1-51 3-30-53	10-20-91 5-16-55	0 13 0 10	0 J7	<u>}</u>	27 8	о ф.	001.	0 A 0 I	0 0000 P	0 01 *	0 00	0 005	0 04 *	0 Deg *	0 DA 0 OEE	0 009* 0 01 *	0 Oz *	0.0054	0 00.4	0 00Å	-	0 0
ai Di Jasque, Rismeri	13,	11-3-56 5-5-75	0.14 0.10	0 集 0 万	5.0 5.0	64.0 46.0	0 OL=	007.	0 DN	0,000m * 0 000m *	0 08 *	ميزون و ميزود	0 00 00	0 04 *	0 08 * 0 08 *	0,08 0 04	0 000F*	D DW *	0.00	0 000	0 00A 0 00B	1	0.0
at Danies, Malerantes	世界	10-47-58 5-5-59	0 14 0 11	0 M 0 55	₹6	≦# 0 €0 0	0,01°	007.	0 05	0 00002	0 OR *	0 005° 0 005°	0 07 .	0.05	0 09 000 1	0 9	0 01 :	0.03 *	0 01 *	ПЩ:	0 01 0 01	Ξ	0.0
al Tankton, South Brissis.	は湯	10-10-51 6-19-79	0 15 0 10	;₹	ξ°	60 a	0 01*	001.	^ C4 0 DA	0 00001	D CR *	0 00 10 0 00 10	0 00 00	0 DA *	0 04 *	0 00	0 00 00*	D CM2 *	0 00	0 00 6*	D 0006 0 0006	-	0.0
și Manurek, Hortă Reputa	16.5	10- 20-5 1 5-25-33	0 LL	3	1 1	₹6 0 17 0	o or.	0 07 .	0 E	0 00008		0 00 P	0 0000° 0 0000°	0.04 .	0 06 *	0 03	0 00000	0.042	0 00d 0 00d	0 00.5*	0 04 0 3	Ξ	0 0
as Villistes, Marth Debots	12%	10-20-58 -23-33	0 16 0 18	0. EL	33	60 0 64 0	0.01°	от. оп.	0.09 0.009*	0 00002 *	0 0g *	0 005°	0 009*	0 09 1	0 04 .	0.05	0 009*	0.02	0 009*	0 009*	0 000	-	0 0
nt Onire Illimia	مور ورگ	10-17-91 5-15-79	0 D6 0 D4	0 90 0 15	2 5 1 7	и о п е	0 101.	001.	0 1 0,009	0 DOOM *	D De 4	0 005° 0 005°	0 01 ° 0 009°	0 04 * 11 04 *	0 02 *	0 Del 0 DO9	0 01 4	0 04 .	0 01 *	0.005*	0 p1 0 009	-	0 0
at Promoville Indian	2-1-54 1-4-59	10-80-54 27-99	0 DE 0 D1	_ *	3 0	17 ¶ 10.0	0 01	0 009*	0 1 0 06	0 0001 *	0 01 •	0 0005°	0 006*	0 03 *	0 01 •	0 01	0 006*	0 02 *	0 006	0 006*	0 02 0 004	1 •	0 0
at Cincipati Chia	9-1-54 4-6-55	20- 20-5 4 5-25-29	0.04	0 31	17	12 0	0 01*	0 01	0 0e 0 06	0 000a *	0 02 -	0 003*	0 006* 0 006*	0 01 .	0 01 .	0 01	0 006*	0 Dg *	0 006*	0.006*	0 03	-	0.0

THE ACTUAL VALUE IS LESS THAN THE AMOUNT SHOWN REPORTED RESULT INDICATES LIMIT OF SENSITIVITY AT WHICH TEST WAS PERFORMED. SEE PAGE 8 OF TEXT FOR EXPLANATION.

TRACE ELEMENTS

1958 - 1959

	DA	TE	- 15.					ONC	NTR	ATIO	и —		MILLI	GRAN	A S	PER	L	ITER					
STATION	FROM TO		-		7r 11860°	DR FLA	M E					MALT	5/5 /)	CTRO	PHOTO	ERAPH	IIC HE	THOD				
	rnom	, ,	В	F	К	Nο	S.	Cd	80	Вв	Pb	Gr	Sn	Sp	Mn	F∎	Ηı	81	Mo	٧	Cu	Zn	Co
ONIC RICH (sentimed) at Partington, Burt Virginia	113	10- 80-7	0.27 0.04	0.15 0.15	1.7 1.7	7 .0	o.m.	. m.o	0.01 0.71	0.000E	0.08 T	0.003* 0.003*	0-00]*	0.03	£5	100.0 100.6	0,00T 7,00,0	33	100.0		0.0m	:	3
si Jasi Liverpiol, Okia	173	11-19	0.03	0.11	Ld L7	16.0 10 0	0.07. 0.44.	**************************************	0.04 0.09	:	0.02	0,00)P	0.00 7 7 8.005*		0.0E .	盎	0.81	0.01 0.41 :	8.007 8.007	0.007 0.007	8,01 8,851	1:	6.605° 6.605°
PORTING NITTH at Speech Halls, Heavy Load	过了	10-40-48 5-45-99	0.03	6.0) 0.11	빏	't :}	6편.	0.00 1	9-64	0.00000	0.000	0,008 0,008	0.007	0.08 °	9. 00	- 25	·	1,000 1,000 1,000	O. SELVA O., SELVA	•-007 •-007	9,80E 9,005	₽. 0. 	LOOP LOOP
si Villimoperi, Maylani	it;	计分别	2.53	0,45 0,47	빔	#1	٠٠ ٣٠	0.00 7	0,1 0,00	0.00000	0,000°	0.007	0.007	0,000 °	0.00T*	0.005	0.003	0,000° 0,000°	0.007	9-007 1-007	9,005 9,005	6. E), dely b, dely
gt Alematria, la.	谜	119-3	0.04 0.04	0, 9	15	35.0 35.0	0.01.	·4:	0,05	0.000E *	0-08 .	**************************************	0.00F	0.04 0.04	0,00 °	9,006 B,0	0,000	:20:	0, 900F	1:27	9.08 90.00	=	L-MP L-MP
gi Jerison, Suma	世場	1-45-91	0.10	25	H		0'40.	1.03	0-02 0-03	0.0005	0.05 t	·#:	0,04	0-70 8-70	•	0,08*	0,46 0,46	: 822	0.04	0.08	0*04 0*87	:	1,00 1,00
pp mills at levels, least	3-1-91 5-30-33	l .	0 10 0 18	0.71 0.55	14.0 3-3	174 174	o'u. o'u.	0.0	0°02 0°6	0.0003	0.03	8.02 ·	0.02	: g:	0.08	0.3	0 ml .	%:	0.81 0.01	0.m :	0.01	=	振:
gi Il Pass, Sexus	123	10-67-98 7-67-23	0.15	0.51	I,I	1,85 1,96	0.01.	0.03	0 000	0.0005 C000 0	0.05	0.009	0.00	9.30	0.04	0,04	0,0# °	33 :	0.E	0.00	0.007*	= .	0'04 .
at Part Vestorth, Sangi-		10-87-98 6-1-99	0 03	0 11	18. g(a)		0	3,06	0.04	.ma. 0	0.1	: 2	0.04		9.00		0.04	# # H	0.04 0 04	0.04		=	0.04
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* ACTUAL VALUE IS LESS THAN THE AMOUNT SHOWN REPORTED RESULT INDICATES LIMIT OF SENSITIVITY AT WHICH TEST WAS PERFORMED. SEE PAGE 8 OF TEXT

(a) HIGH VALUES PROPABLY DUE TO EFFECT OF SEA WATER

